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	HY	DRO ELECT	RIO	SCHOLE				iii iii
		Revised	Esti	imate.				Q)
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I. Div	ision, P.H.	Deptt:		Estimate	No.	12	1921	** 22 ()
	Allehabad			Amount Re	: 20.	73.3	87/-	

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UNITED PROVINCES.

PUBLIC WORKS DEPARTMENT.

W.	zini Tel Ustruct	Second. Divi	Sion. P.H. Dept
Estimate	no. 12 , framed by I	Ir F.D. Junnicliffe,	
	Executive Ingineer, of th	e probable cost of Hydro-Electric	2 Solieme.
and the second s	Na i i	ni Tel.	
Datea	Tallia Ty 1998 e	Amount of this estimate, Rs.	50,75,387/m
Reference number on plan.	List of plans accompanying Subject matter of plan.	Index of contents.	Pages.
3	Index plan of power pipe line. Site plan of inlet cham- ber Site plan of pumping station building.	Table of reference Blank sheet Report Coneral specification Detailed specification	4.4.
	-do- Katcherybagh -do- -do- Sukha Tal -do-	Calculations of running expens Abstract of cost Details of rates	es 9-12 13-25 > 26-46
0	-de- Power Station -do-	Detailed measurements	47-131
	Index plan showing Transmission & distribution li Flan & L. section of power pipe line (3) General plan 4 sheete	na	132-159
10	Power house building		er de la companya de
12	Supdt:Quarter, Staff Qr. & sweepers hut. Katchery bagh & Shukhatal sub-station buildings Pumping station buildings		
15	Details of reinforcement for power house -do- reinforced concrete for buildings -do- Vulcan expansion &		
18	sleeve joints. Arrangements of R.C.Besms & Windows for P.S.B. Bevised arrangement of Dumping plant. Arch over trench for C.I.		
20 21 32	pipes. Details of fitting for sliding doors. Plans & details of inlet chamber. Details of tall race. Thurst block of power		

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24 *	Date.	Erom	T_{O}	Brief al stract.
ALL MATERIAL PROPERTY AND THE PARTY OF THE P				According administrative approval of the project at an approximate estimated cost of Rs.
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From G. McC. Howy Esqr.,
Superintending Engineer,
P.H.Deptt., U.P.

To The Chairman, Municipal Board, Naini Tal.

Sir,

I have the honour to enclose herewith the revised estimate and plans for Naini Tal Hydro Electric and Water Supply Improvements, amounting to Rs20, 387 lakhs.

In the reports attached to this estimate explanations are given showing how the large excess has been caused, and if any point is not clear, the Executive Engineer will be glad to explain details to your Board on your flxing a date.

The Executive Engineer informs me that allotments are almost exhausted and that large liabilities will
have to be met as soon as the material at present in Calcutta
is delivered at Kathgodam. I would therefore request that you
will kindly take steps to put at that Officer's disposal the
requisite funds to meet the bills. The Executive Engineer
will inform you direct of the approximate amounts he requires
and the dates on which he anticipates the liabilities will
have to be met.

I have the honour to be,
Sir,
Your most obedient servant
Sd. G. McC. Hosy.
Superintending Engineer,

P.H.D., Allahabad.

No. 646/7111-6, deted the 23rd Tebruary 1922.

Executive Engineer, II Division, for information with reference to his No. 564 dated the 17th instant. A copy of forwarding note and a statement of analysis on the original and revised estimate is also enclosed.

Sd. G. McO. Hoey.

Superintending Engineer,

P.H. Deptt. Allahabad.

TRUE COPY.

Note by Superintending Engineer, Public Health Deptt., U.P.

155 to en Ous en es

Several reports have already been made concerning the large excess anticipated on this work, but owing to the difficulty in obtaining correct figures and delay caused by recent changes of staff, it has not been found possible to complete the revision of the estimate until now. The original and revised estimates are attached herewith and may be fairly analysed as shown on page 5 above.

(2) Other comparative statements are datached in the revised estimate giving details of the excess item by item.

of the original estimate a sum of rupees 7.74 lacs was provided for overseas materials. The actual cost of this material estimate at 1/3 exchange, is now Rs13.68 lacs. In these figures centage charges are not included. (The net excess for overseas materials is therefore, Rs 5.94 lacs, exclusive of fees. The original estimate was drawn out on an exchange rising, and the orders were placed when the rupee was of 1s.6d when the rupee was/about 2s. and still rapidly rising. A difference in exchange of 1/3 to 2/- operating alone would cause an excess of about Rs4.66 lacs).

(3) Unforturately owing to the trade boom in Europe immediately after the War, no firm could be found willing to quote, except on an Exchange and a Cost Variation Clause to guard against the ever increasing labour and material prises. To the excess due to exchange an amount due to the increased cost of material and labour in Great Britain must be added.

The total net excess of Re95.94 lacs cannot be accurate—
Ly apportioned between exchange and labour and material costs
until the Audit Certificates of Manufacturers Workshop costs
are received.

It should be remembered that no firm quotations could be obtained for any manufacturer until the commence. ment of the slump towards the end of 1920.

(4)

The total excess on overseas materials as above stated, amounts to about 5.94 lacs. The total excess on all works, including fees, amounts to Rs9.34 lacs.

If fees and contingencies are excluded the nett excess on all works is about 8.40 lacs leaving a balance of about Rs2.46 lacs, which excess cannot be explained by exchange or by price variations in home materials.

(5)

This excess is explained by

- (a) rise in local rates.
- (b) increased accommodation at Water-works pumping station.
- (c) bridges and piers which were unforeseen and found necessary during construction of power pipe line.
- (d) certain unforeseen works.

The amount included under (a) and due to rise in local rates is estimated to be about Rsone lakh, or over sixty per cent on an average above the rates scheduled early in 1919.

(6)

The cost under (b) is due to the new building found necessary to house the extra sets considered necessary and a substantial retaining well necessitated by a slip on the hill side behind the pumping station. The extra cost involved to this amounts to Rs 52,000/.

The cost under (c) is due to the increased number of piers required to support the power pipe line, and bridges over the nullah hear the Power Station, The number of supports was seriously underestimated and until the foundations in the hill side were excavated the quantities of masonary included were not realised. It must also be remembered that this masonary had to be paid for at very high rates. The amount involved under this head is between Ex70 to 80 thousand.

3.

9.

10.

This judies works establishment As6,640, and the balance is made up of temporery buildings for storage of petrol, a motor larry shed, a shelter for temporary pumping plant at Tallital, and cooly huts.

The excess on the sanctioned estimate has a most serious effect on the running expenses of the supply and will postpone for perhaps two or three years the date at which the supply will become Profit earning. The cost per unit generated will now amount to annas 3,25 against the original estimate of annas 2,55 per unit with the supply in full working.

A reasonable anticipation of profits with the supply in full working is now about Rs39,000 against the anticipated Rs70,000 in the original profit.

The local work is nearing completion and will be finabled in March. Advice has been received from the Manufacturers that all the plant is either on the sea or has been delivered in Calcutta. Large consignments are at present held up at the docks owing to the strikes a date for completion is therefore a difficult matter to forecast, but in the event of the plant being all put on rail before the end of this month, it might reasonably be anticipated that energy will be available to the public by the end of April hext.

The total expenditure to date is about Ha7,00 lacs and large liabilities are outstanding. The allotments to determine the support of surther date have almost been used and the provision of further funds at an early date is essential.

Sd. G. McC. Hoey,

Superintending Engineer,

Fublic Health Department,

United Browlinges.

ORIGINAL ESTIMATE

PERSON CENTRAL

Power Station Equipment Transmission & Distribution Substation Equipment Tumping Station Equipment						
Station Equipment Pipe Line dission & Distribution C37 Cien Equipment Equipment	Overseas Porks As		E-4	Mich Scholler W.	SERVICE CONTRACTOR SERVICES OF	1
Pipe Line distibution tien Equipment Estion Equipment	155,400	2 计区记标出证明目标 电电阻 化二甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基		C/\$	និ	CAS And And And And
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Sd. G. MoC. Hoey Superinterding Engineer, P.H. Depåte Ajlehabad.

NAINI TAL HYDRO-ELECTRIC SCHEEFE.

Revised Estimate

Note by Mr. F.D. Tunnicliffe, Executive Engineer, II Division, Public Health Deptt:

late Executive Engineer, II Division, P.H.D to submit Report with Revised Estimate on the Naini Tal Hydro-Electric Scheme, to the Superintending Engineer, Public Health Department, some time during the month of November 1921. Unfortunately Mr. Platt had to go on leave, at a moment's notice, on urgent private affirs, and he was not in a position to complete the work he had started, previous to leaving the country.

Mr. Platt had prepared, in draft, a Report not quite completed which is attached, and had also gone through the Revised Estimate which had been prepared by Mr. I. Walker Assistant Sanitary Engineer, to the Govt., who has also left the country, and had corrected some where necessary.

Mr. Platt had been in charge of the construction of the work since its commencement, and Mr. Walker late Assistant Sanitary. Engineer, had also been engaged on this work for the period he was in the country, that is from Dec. 1920 to Oct. 1921. Both these effices were "an fail" with the work and I submit the Report and Revised Estimate with little comment and alteration.

It has been necessary to make a certain number of minor alterations to the estimate as it has been found that the number of

pillers allowed for, to support the Pipe
Line, were not sufficient and several other
little items had also not been included.
These corrections have been made in the
Revised Estimate submitted herewith.

Briefly, the original estimate amounting to Rs 11,39,639/- is not sufficient to cover the cost of the work, due to reasons given in Mr. Platt's Report. The Revised Estimate amounts to Rs20,73,387/-

I submit the Report with the Revised Estimate for favour of early senction.

Sd. F. D. Tunnicliffe

Executive Engineer, II Division, Public Health Department.

NATHI CAL HYDRO-RIMCTRIC SCHEES.

REVISED ESTIMATE.

Report by S.E.Flatt Esqr., Executive Engineer, II Division. Public Health Department.

The estimate for this work was sanctioned in G.O. No. 505C/1140W, dated the 10.5.20. for Rs 11,39,639/- and work was atorted in September, 1920.

In senctioning the estimate certain changes were made in the arrangement of the pumping plant which rendered it impossible to house the new pumps in the old filter house building. The sum of Rs9000/- had been provided for alteration to this building but this sum proved quite inadequate to cover the cost of the new pump house.

Owing to the confined space available the filter house had to be dismantled and the new pump house built on this sime efter an expensive retaining wall had been built against the hill side to provide the extra space required. The extra cost is of the building caused by this change in the arrangement of the pumping plant amounts to Rs 52,435/-:

When work was started, all building work was in the change of the District mork was in the change of the District Engineer Naimi Tel, the high tension line and distribution system in the charge of Mr. Bell, Electrical Engineer, Wissgarde and the remainder of the work in the charge of this division. In addition payments for all works were nade by this division against the certificates of the



officers concerned.

Tenders for all building work were called for by the District Engineer, Naini Tal and were accepted by the Chief Engineer. In consequence of the general increase in all rates during the period 1918-21 the rates in the accepted tenders were considerably higher than the rates in the sanctioned estimate with the result that there is an excess amounting to Rs 7,68,336/- due to increased rates.

The arrangements for the supervision of the erection of the buildings did not prove very satisfactory so on the arrival of five Assistant Sanitary Engineers from England in December, 1920 the District Engineer Naini Tal was relieved of this work and the entire supervision of all work, except that done by Mr. Bell was handed over to this division.

The prinicipal cause of the large excess in this estimate is the fall in the rate of exchange and the general increase in manufacturers prices since 1919. The estimate was prepared in the summer of 1919 when the rupes exchange was about 1/8 and the orders for plant and materials were placed in June 1920 when exchange was about 2/-.

Owing to the unstable prices for materials and the constantly varying wages of labour no firms would accept orders at that time except subject to a prime variation clauses dependent on the easts of materials and labour, Since the orders were placed the cost of labour and materials first rose and then fell and the exchange dropped steadily.

standily until the rupes was worth little mote than 1/3. The greater part of the waterials for the high tension line distribution system, and proper pipe lines has been paid for at exchange rates varying from $1/3\frac{1}{2}$ to $1/3\frac{3}{4}$ for material which the manufacturers purchased at the a top of the market market The exchange now shows some signs of recovering and to day stands at about 1/5. It is hoped that it may be possible to pay for the generating & pumping Plant at this or a higher rate of exchan, and so effect some saving in this estimate which is based on an exchange of one shilling and three pence to the cupee.

Note:

This report was drafted by Mr. Platt late Executive Engineer, II Division,
Public Health Department, between the
1st and 15th October 1921. I submit it
without alteration of comment.

Sd. F. D. Tunnicliffe 16/2/22,

Executive Engineer,

II Division,

Public Health Department,

Raioi Tel Hydro-Electric Schame. Estimate of running expenses.

1. Sinking fund & Interest on a Capital of Rs 17,16,474 less grant of Rs 3,00,000 © 6 % per annum compound interest repayable in 30 years. 7.265 x 14,164.74

Re1, 02, 907/-

2. Staff.

One Blectric Angineer @ Rs 800 p.m.	•
Rs 100 Horse Allowance Rs 50 Convey-	
ance allowance ossessessesses	850-0-0
One Power Station Asstt: @ 400 p.m.	400-0-0
Three oilers @ 25/-	75. (m).
One cleaner @ 15/-	ID on O see ()
One fitter @ 75/-	75-0-0
One Head Lineman @ 75/-	75-0-0
Four Linesman @ 30/-	120-0-0
Three sub-station Attendents @ 25/-	75-0-0
One Chowkidar @ 15/-	15-0-0
Two Belders @ 12/-	24.0.0
One Hate @ 15/-	15.0-0
One peon @ 12/-	12-0-0
one Clerk @ 70/-	70-0-0
One Store Keeper @ 60/-	60+0-0
One Sweeper @ 15/-	15-0-0
는 경험하다 하는 것도 모든 물리 시간 등로 함께 하는 기계를 모든 것이 걸리는 하다. 그리고 있는 것이 되는 것은 것이 되는 것은 것이 되는 것이 없는 것은 것이다. 그렇게 되었다.	

TEIDSO-O-O

1,906 x 12 Rs 23,952-0-0 per snnum.

3. Materials.

Lubricant Waste & Transformer oll at 2/- per 1,000 units generated. 1,408-0-0 Stationery & Printing charges @ 15/- per M 180-0-0

Total Hs1,588-0-

MAINI TAL HYDOR ELECTRIC SCHMIL.

4. Repairs.

Building © 1: % on Ra89,886	1346-0-0
Machinery @ 3% on As 3,28,503	9855-0-0
Over head lines 1/5% on Rs 525,000	1050-0-0
Power pipe lines 2% on Rs503,151	2516-0-0
Total Rs	14769.000

5. Rest for Telephone line & connection 200-0-0

Summary of Running expenses.

1 0	Sinking	Fund	and in	terest	1,02,907-0-0
8.	Steff	60 C T	କ୍ତ ଘଟ	69 G 10	23,952-0-0
7. W	Materie:	1.5	a , an 50	83 B G	1,538-0-0
4	Repairs	• 6 8	9 4 6	** 6 *	14,769-0-0
. "	Harit			\$ 53 59	200-0-0

1,43,416-0-0 Total Rs

Total units delivered per annum 704,436-0-0

Cost per unit 2, 25 amas.

Estimate of Revenue.

1. Public Lighting

98,550 units @ 3.0 annas 18,478-0-0

2. Private Lighting &c.,

292,626 units @ 6.0 annas 1,09,734-0-0

3. Fewer for pumping

265,060 units at 3.0 annas 47,824-0-0

4. Power for heating and anoking

. (winter only) 58,200 units 3 2.0 annas 7,275-0-0

1,88,811-0-0

The · estimated annual income will be Ral, 85,311/4 & the estimated annual profit will amount to Ref1.83,311/-Ref. 43, 416) giving an income of Rs39, 895/4 when maximum

emount of current is taken. Sã. F.D.Tumule

		·	

Water Supply Arrangements. Estimate of running expenses.

	Sinki	ng fur	d an	d intere	st charges	on	žŤ.	capital	of	
Rs3,56,918	@ 6%	compo	sund	interest	repayable	in	30	years	STER USBNO	
3569.13 x	7,265				25,930) = () =	- ()		. :	

2. Staff.

Allowance to Electrical Engineer for general

Supervision @ Rs100/-	100-0-0
Water Works Supdt: @ Rs300/-	300-0-0
One Head Mistri & Rs80/-	80.0.0
One Oller @ Rs25/-	25-0-0
One cleaner & Rs15/-	15-0-0
One Chowkidar @ Ra15/-	15-0-0
One pipe line Inspector @ Rs100/-	100-0-0
One Sweeper & Ra 15/.	15-0-0
Total Rs	650-0-0

650 x 12 = Rs7800 per annum.

3. Power required for pumping.
255,060 units @ 3,00 annas per annum 47,824-0-0

4. Materials.

Lubricants & Waste @ 2/- per 1,000 units consumed 510/Stationery Printing & water test charges © 20/- 240/Total Re 750/-

b. Repelline

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Total Rs 6,698-0-0

Summary of Ruming Expenses.

1.0	Sinking fund and Interest	į	T. T.	25,930-0-0
5 T	Staff charges			7 : 800-0-0
67. 5. <u>4.</u>	Power charges			47,824-0-0
4) cs	Wateriels		•	750-0-0
5 , 6	Repairs			6,698-0-0
		•	Trest de la Contraption de	. 然在此处如今期日中代了1955年1965年1965年1965年1965年1965年1967年1977年1987年1987年1987年1987年1987年1987年198
		Total Ra		89,002-0-0

Number of gallons pumped (120 \times $\frac{1}{2}$ \times 182) \times 22,000 \times 15 \times 69.63 millions

Cost per 1,000 gallons 20.45 annas.

If sinking funds and interest on previous loan

(Rs23,014) is added total annual charges Rs1,12,016/
Cost of water per 1,000 gallons = 25.73 annas.

Sd. F. D. Tunnicliffe 16,2,22. Executive Engineer.

Wedni Tal Hydronilleoutle Schene

Revised Estimate	FINE ADECTOCE
Hydro Electric Scheme	17, 16, 474/
Water Supply Alteration.	5 5,50,915/w
Grand Total Rs	20,73,387/en

Note:

- 1. This figure does not include any money for Land or Tree compensation.
- 2. The rate of exchange is taken as Re. 1/- a
 1/3 (one shilling and three pence)
- 3. The amount of Rs6.579/- as cost of Temporary buildings would be credited to the estimate. if Naini Tal Municipality agrees to taking the buildings over.
- 4. No contingencies have been allowed on the works which are completed.
- 5. An amount of As360/- for the employment of a temporary clerk for a period of 6 months by the Naini Tal Municipality has been included in this estimate at the request of the Secretary Naini Tal Municipal Board.

Sd. F.D.Tunnicliffe.

16.2,22.

Executive Engineer.

II Division, P.H.Depth.

Maini Tal Hydro-Electric Schene.

Abstract of Cost

1 1	Power Station Buildings	Rs 72,709/2
E. g	Power Station Equipment	8,31,311/~
3.	Power pipe line	5,03,151/-
4.	Transmission & Distribution	5,25,000/-
5.	Sub-Station Buildings	17,177/-
6,	n Bquijment	97,192/-
ri .	Temporary Buildings	6,579/-
8,	Work Establishment	8,289/-
9.	Temporary clark for Naimi Tal Municipality 6 months & Rs 60/-	360/-
10.	Iotal Rs	14,61,759/-
10.	Add contingencies 5% on 14,16,146 (see note 4. page 13).	70,807/-
11.	Add S.E's fee for preparation @ 2	15,32,555/- 30,651/-
12.	Establishment T & P &c., © 10%	1,53,257/-
	Ra .	19,16,474/-

For details see page 16-23.

Sd. F.D.Tumniclifte.

16,2,62,

Executive Engineer.

Naini Tal Hydro-Electric Schame. Abstract of cost for alteration and additions to Water Supply.

d d	New pumping Station.		63,685-0-0
E. a	e Equi	ipment	2,39,813-0-0
3.		Total Rs	3,03,498-0-0
3.	Add 5% Contingencies		15,175-0-0
			3,18,673-0-0
4.	Add S.E's fees 2%		6,373-0-0
5,	Establishment 10%		31,367.000
		Total Ra	3,56,913-0-0

For details see pages 24-25.

Sd. F.D. Tunnicliffe. 16,2,22,

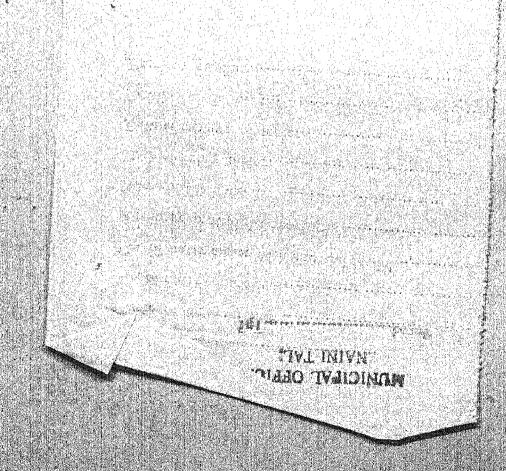
Executive Engineer,

MUNICIPAL OFFICILI NAMETALI

the second secon

ESTIMATE OF Estimate of power station Buildings.

	Description of work.		Rate.	Amount Rs.	Total Rs.	
Annual An	Power Station			35,265		
2,	Tail Race			7,950.		
5.	Staff Quarters			18,532		
4.	Supdt: Querters			8,400		
5	Sweepers Hut.			1,504		
6.	Supdt: Cook House			1,058	72,709/+	
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				And the second of the second o		



S.E. 14.

Revised Estimate.

Naini Tal Hydro-Electric Scheme.

ESTIMATE OF As taken from Mather & Platt's Tander, Power House
Equipment.

Description of work.	Quantity. Rate.		Amount Rs.	Total Rs.		
Felton Wheels complete No. 3 Alternators & Excitors				51,204 66,542		
complete Main Switch board Transformers & Lighting Arrestors all complete W.I.Crane Overhead Complete				57,590 6,464		
Spers for alternators Connections between Alternators and Excitors &c. Flour plates				3,148 6. 453		
and accessories Complete		1/54 1/3		<u>91 401</u> 223,301		
Ten lighting points with connection complete Office Furniture Workshop Equipment				1,000 750 5,000		
Les Recorders complete				1,260 2,31,31		
		Sd.*.		unnicalif		
		Execu	100	Englisher		

MUNICIPAL OFFICE. MAINI TAL,

The Same of the Same and the Same of the S

MALLEY (T.L.)

ESTIMATE OF Power pipe line.

Description of work.	Quantity.	Rate.	Amount Rs.	Total. Rs.
1. Valve chamber at commencement of inlet pipe.			2,482/~	
2. Inlet chember & 20% intake connection from lake. 3. Thrust Blocks & Pillars for			40,715/-	
			93,552/-	and the state of t
Supervision carriage & laying &c., 5. Pipe specials &c., to be			3,01,258/	
supplied at power house by Mather & Platt. 6. Specials, grooves, S. Valve &c., to be supplied at inlet	and the specific of the specific plane is the specific plane in the specific plane in the specific plane is the specific plane in the specific plane in the specific plane is the specific plane in the specific plane in the specific plane is the specific plane in the specific plane in the specific plane is the specific plane in th		5.6,464,	
chamber by Worthington Simpson.			8,700	5,03,151/-
		Bda	F.D.Tun 16.2.8	
		Bxeo	utive Bo	
Tor details see page			and the second s	
				pluses pluses programme and pr

					rann y Marian				191
		Teini	Tel Hy	dramate	otorio (Scheme	•	s. r.	o. 14
ESTIMATE	OF_	Transmis	sion su	id Distr	ibutio				
						a samp managam later month t			

Description of work,	Quantity.	Rate.		Amount Rs.	Total. Rs.
Herd Drawn ligh conduction					
cobbex wire	and the second s	1-2-04-4-7	Language of the second	4,40,000	alder with the second of the s
Over headwork				55,000	
Carriage of above			and the state of t	30,000	180 de haarren de gewegen en de konstruit van de konstruit van de konstruit van de konstruit van de konstruit
Arection	ter grange standers in a global and a standard		Carry of Capture		5,25,000/
The second section of the second section is a second section of the second section of the second section is a second section of the secti	and although the contract of the material enders the contract of the contract	gyenin palityromethaye imiyab da	Ar denimber verter		
	A principal of the second of t	and the second second section is a second se	and the second s	d fargetic des programmes de programmes de manifeste de la companya de la company	And the second s
and the second s			ga e e a general de la companya de l	A Company of the Comp	and the second s
inderengen digitaring a gang gang ang kalayan mang pingan mang pingan mang pingan mang pingan mang pingan mang Pingan pingan pingan panggan	and the second s		all distribute physics on a Productive	Language at a community of the community	Acceptable for the state prompt the engineering and a second seco
Før detalls s <u>ee P</u> s	45.29	en er gegen en er geste ste de de en	dan van de kartinde belgeringen Lieuwen de kartinde belgeringen Lieuwen de kartinde belgeringen de	in the second	
		Sđ.	n.d.	unniclif	e e e e e e e e e e e e e e e e e e e
and the state of t			Am Author	16.2.24	7 (1)
		_Exsc	J. I. T. E.	Engineer	
The state of the s					
	100 Marie 100 Ma			185 and 186 an	<u> </u>
And the second s	and the second s		والمساورة والرواي	in the all the second second second	
Company of the Compan	ar a till som synny tilbridge til grand till som				A second
	Language of the state of the st		ata da marana		
and the second s					
- Company of the Comp					

ESTIMATE OF Sub-Station Buildings.

Description of work.	Quantity.	Rate.		Amount Rs.	Total. Rs.
1. Sukha Tal Sub-Station				8,598	
2. Katchery Esch " "				8.579	
		and the second second			anne propins de la companya de la c
	en e	aine dans de promotografie La colonia			
		kar kara pana Parago na pangan Panganan		Andrew Company of the	
Por details see ρ:se	39.440			and processing the first of the second of th	
and the second s		The state of the s	and the state of t	en engan sandapapan di garan dakaran da sandapan da sandapan da sandapan da sandapan da sandapan da sandapan d Sandapan da sandapan da san	
The second secon		5 6. F	,D , Du	nicliffe 15:2:22:	
		Execu	liva.	ingireet.	
		a principality and the			
	Topic page (All Principles	e de la companya de l			
				arantijon aran Bana	
			s de la constante de la consta		

ESTIMATE OF Sab-Stations, Equipment.

Description of work.	Quantity.	Rate.	Amount Rs.	Total. Rs.
Sub-Station Equipment and substantian server				
No.1 H.T.Line and feeder appearat	O II			
&c Control Panel Transformer	enghangana salah dalam salah salah salah	ga dan sanggan nga sansan nga katawa	e translander i saktivaj da Barilia a j	and the second section of the second section of the second section of the second section of the second section section sections and the second section
equipments lighting orrestors		and the second s	20,123	and and the second of the seco
No.III -dododo-		e description de la company de	20,125	an en
Ne.III -dododo-			30,645	
No.3 Elliott Type recording	e de la companie de La companie de la co	Sang me Bangan salagan salah sama di pendaman di Santan si pendadi di Angara salah salah salah salah salah sal Sangaran di pendamban salah		and the subject of th
Volumeters.	and Andrews in section and the paper of a particular section of the section of th		and the second of the second o	and the complete all on the complete consisting particles of the particles and the particles of the complete constraints of the complete const
" " -dodo- sirmeters	all and the second an	er og skjenskilming fra 1. også på tradiger og skriver bærere (8)	n der Livering og Hingage, og statet og forten i de okke på	annestimos mentre el proporto en en profesio de la dispensación de descripción en en esta esta esta en el cons
" 2 Tachometers	kalan awang ninggapiya direka (dan sagan niggapi	A page and a page of the state	6,7 9 5	ga ja makan najaran putu di kalangan pangan pangan kan makan pangan di Pangan di Kanada di Amerika Pangan kanada pangan panga
3 Morrs Ltd Wormgenr		1/6	<u> 1771626</u>	g gag jamaga jaga jaga kanang panggan panggan panggan panggan panggan panggan panggan panggan panggan panggan Banggan panggan pangga
Fully Block	ang kanggara tanggan paganggan kanamatan dan pandaran	1/3	90,752	
	a december and the second of t	and the state of t	a transcription and the color of the color o	Control of the state of the sta
Six lighting points @ 60/-	and the second s	The property of the same of th	<u> </u>	The state of the s
Add for erection for above	gg aspectage Paragonal results of	a kalanga at ti kana ang at ti ti kana ana ang atawa at ti ti kana at ti kana at ti kana at ti kana at ti kana	3,500	migro pagamagamatan propaga sa tabutan barang
Take out arrangement for two		a in a consistential and a second of the		
1ines @ 300/	a de sur asseguir para também de sur de s	Lacracy post-conjugation of	600	en e
Add for erection of above	and the second s	<u> </u>	2.100	The state of the s
gi Tarang managan	and the second s		97,192/=	and the second of
The state of the s		and provide the angle of the second		
	and the same of the same of the same of	Li PLIA	ynicliffe	
			10,200,00	
		Parecutive	ingineer.	
			1	
	İ			

ESTIMATE OF Cost of Buildings constructed temporarily & to be handed over to Muricipal Board after completion of work.

Description of work,	Quantity.	Rate.	Amount Rs.	Total. Rs.
				Samuel terror and a grant and a second disease of the same of the
Coolies Cuprter shéds	Marie Victoria (1944) de la companio	and the second process of the second sections of the	2178	and the second s
Petrol cell		Automative States and States States Type of Committee States Committee	1529	
Chowkidar shed for bove	al an agreciment may protect by development	ine an in other spinstellaries, pipelifer singulare e maleigale	855	and the state of the second second second
Lorry shed	Anna de la compania del compania de la compania del compania de la compania del compania	Strong (S. S.) as produced of strong st	2017 Processory seeds and a processor for surger	popularing to a lateral stage process and bell of the stage.
andre in the second of the	angan Palaway sa makalah ping minang ang mapan mag na	e de la comita de la composition de la	gages breaks, so de para es a Africa de Char	g gyggglein nig konnyller i den i trekk om ged grenne gren for en e
the 44 cm day, the control of the experience of the conference of the conference of the control	and a section and a security of the section of the	tion of the state	Total Ra	6.579
t de la companya del companya de la companya del companya de la companya del companya de la companya del companya de la companya de la companya del		the state of the s	in the state of th	and the second s
en en i 1. g. falso " estas ling, en estas e demonstration de montante de montante de la companya del companya de la companya del companya de la companya del la companya del la companya de la compa	an complete securities de plates a resta pentre en en en esta proportion de la completa de la completa de la c	makkalen sooriitelijissi irrekel soofinsi inte-p-82 vasimbel	and a security of money of all the lighter independents	open (pp) on an employment on the Second Company (pp) (pp) polymorphism
and the state of t	ang tanggap sa mengapagkanan mengapagkan kengapagkan di kengapagkan di kengapagkan di kengapagkan di kengapag Panggapagkan di kengapagkan di kengapagkan di kengapagkan di kengapagkan di kengapagkan di kengapagkan di keng	ngergeneral professional profession and expression	, kan arang ang at san Bura, mananan sa pang ang ang ang	de gest en se en
	41-44.	gayangganga dagi dina 60 pana 1995 kanasada	g na mystyd gyddigg gydyng aw'i llaws yn y 1,4 a'n o gaethau y	g managarah ya pina manamakan kata akin yang dalam ing apanah dalam
and the comment of the contract of the contrac	Service of the servic	aged in the proper standing that is allowed by the standard paper of the	ender all their area and about him or still a digital.	Marie volumento y born provincio prima april
n der Georgia kan mit der geweise aus er den georgie gegen der den geweise und der der der der der der der der der de	a lajur sariju i jenoj u stravuljajuju jej laijaking	sa. N.D. mi	nnicliffe	erupaka sempa mandahkar edipi serebasan B
			16.0.22.	r farica degli s se superiolo
	and and the second control of the second con	Luscutive	Bigineer	
		and the state of t		
		a Bayer store and the entire considerate the second		and the second s
	n gravensky policycy i pocy - 1,777 18	and the second s		and project planning to the second section of
And the second s				and the second s
			(1) (1) (1) (1) (1) (1)	
	A STATE OF THE STA			And a light of the light
			a disense in the contract of	Philippings of the philipping
		<u> </u>		
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	《红篇》			AND THE PROPERTY OF THE PROPER

		e e e e e e e e e e e e e e e e e e e

ESTIMATE OF New Pumping Station Evildings.

Description of work	Quantity.	Rate.	Amount Rs.	Total Rs.
1. Pumping Station New Buildings			61, 352	
2. Chamber over pipes outsid			2,333	63,685/-
	gamen ig a magdi jaman menenggi je salah salah Magdi pagamat dan pagamatan salah salah Magdi pagamat dan pagamatan salah salah		na nama kang di kananang di kananan Kang di kang di kananan ka	e e de la companio del companio de la companio del companio de la companio del companio de la companio del comp
Por details see pree	45-46		antivat visianing religioning are not a left of the second	
	and the second s	sd. F.D.Ta	A STATE OF THE STA	\$ 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
		Executive :	16.2.22. Deineer.	
				310 (10 1) 23 (3) (3) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4
		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		

ESTIMATE OF Pump House Equipment.

Description of work.	Quantity.	Rate.	Amount Rs.	Total, Rs.
High zone pumping plant complete		on which of the second	62,616	
Intermediate do- do-	an order of the second	and the second of the second of the second	32,819	de 18-1 i de 18-18 te sençali, qua si dia est, 19 quest, emplessos sequidações
Low -dodo-			29,480	
Suction pipes for tree zone	a and the figure of the first o		a de la composition	mer energia per esta esta energia de proposa de la compaña de sambilitado de la compaña de la compaña de la co La compaña de la compaña de
oumps complete and Air vessels	entiferance and the control of the second		Militaria de la composició de la composi	t tall and the desirable of the strain of th
to High zone pumps.	and the second s	St. (All-1, Adapt) - All-1 - St. (All-1, Adapt) - All-1 - All-	11,430	ala di dalam da 1900 di Santa da 1900 di S
Cables, Floor Plates &c.	e en participa de la companya de la	na mana da da mana ang mang mang mang mang mang mang	6,142	Orto A. S.
wer head er ane	George was seen and some one contract of the second	estal for contravant stopp and the stopp of the stopp	6,464	Cyle (13.75)
		1/5½ ° 1/3	148,951 174,301	
ix lighting points complete	- (p Literatus Maria (Maria	en film general and a legical and	450	
daing Mains Ø Ex: 1/3			47,041	A grant programme and the second
dd for laying Carting & Railway.	a a para di santa a regiona di santa d Santa di santa di sa	Color of the second second second second	15,201	and the second s
dd for Specials Välves &c 6% on. 7,000	5. 446	r e	2,820	65,062,
	and the state of t	sa. F.D.	Bynnië iliffi	والمراجع وال
		14 (4 (4 (4 (4 (4 (4 (4 (4 (4 (4 (4 (4 (4	16,2,22	the first state of the state of
		Pascutit	e Englisee	
		and the second second		

B. E. No. 14

Naini Tal Hydro-Riectife Schene

Reinsand

ESTIMATE OF Power House Building, (Power Station)

Description of work.	Quantity. Rate.		ite.	Amount Rs.	Total. Rs.
Hill cuttles	70078Cf1	22/-	% 0	1541	
Excavation	18864 Of t	14/-	%0	264	n osazan ila interesta seperan Maryada
Lime concrete	24510ft	47/	76	1152	and a singular specifical strategy of the
P.C. concrete	1389 Cft	183/+	%	2542	in the second second second
R.S.Lime mesonry	27559Cft	51/13	76	14278	a Lipati, da de regendad dos ale recupios dos e del
R.C.concrete including iron	1148Cft	3/8	cft	4018	in the street feet and their street indepen-
Cement rendering work	1,9038ft	22/-	an Factor over consistent	Morrial To group Monte parties (All Services Calledon Services Calledon	a water to a market water to separate the country of the country of
Paripan costing	16538ft	9/•	<i>A</i>	149	p company and increased the color of the
Iron work of trusses including	fixing :	s per	bi11	4300	andrien, alternating naphyrote Major
Lime pointing	96295ft	4/9	Lauren	439	an Jedenskapp i reggint ()
Chaurwood work	48.16 6 ft	3/4	oft	157	ng ang pangang ang ang ang ang ang ang ang ang a
Sliding door as per bill	2 No.	an Inggir is strading weeter Me	والمساورة والمراجع والمراجع والمراجع والمراجع	500	and the second second
Chir wood door leaves	5258ft	2/4	_sft	1181	gen julis disk generalisk storikjensk s
Stone paving	750sft	46/-	#	energy of the control	Banan jagan sa
Iron sheeting including labour	31548ft	65/-	. B	20 E0 Sentagas augineros programas programas de la constante d	et yanggi se sasagi sueri sasagi.
of fixing Ridging	218Rft	1/1	BI t	238	ay that had been supposed.
Lead sheeting		8 5/ -		anganan angan persebahkan	providenta con el provincia por la compania de la constanta de la constanta de la constanta de la constanta de
Painting & Varuishing	1403,815	7/8	a Alemania	Landin security services and the security security services and the security security services and the security s	Hapane (Ingraphy april Court
Painting to iron trusses/	<u> 1 Job</u>	L.La	.	L., 23	
Earth filling	2633Cft.	14/-	la record	37	property and the second of the
Saucer draim	SILESET	-/10/		1320	
Site clearance	L Job	L.] . S. :	60	35,26
to more manager, and process are also the control of the control o			kų ir suomeniais		
For details see page	47-55				
and the second control of the second and the second second second second second second second second second se	and the second second	5 4. .	r.d.2	ļaujeliffi	
The second state of the se				16.2.22.	
The state of the s		B x ec	urivä	Engineer	
				Land and the second	
					La place di montre di

ESTIMATE OF Tail Rage.

Description of work,	Quantity.	Rate.		Amount Rs.	Total. Rs.
. Excavation of inner side of power house	7448cft	14/-	‰ 0	104/-	
. Hill cutting at the end of	1000Cft	22/-	%0	22/-	en di samaning di karang ng nganak di sami dan
. Cement concrete	1318Cft	163/-		2412/-	en de en som en
. Cement masonry up to C.L.	2515Cft		7	3270/-	n v. enskalar avskalarja og kverkalarj
. Time masonry	11420ft	51/ 13	Ta ngan	592/-	
. R.C. Work including iron work	1700ft	3/8	oft.	595/-	Anne and the first of the second second second
. Box Older pitching below the	13QSft	40/=_	<i>7</i> 4		no marantining i dipantano majo, i po
. Barth filling	. 381. ·	14/ -	<i>76</i> e	and the second	a of the continue to the contract of the contr
. A. Sal wood planking	50Cf4			espanhes panes e l'apprendict apparentes	
. B. Chirwood frame, door	iooft	FATEURICAN	oft		
. Cement plaster	läeecft.	22/=		305/-	Complete probability and broad and
. Lime pointing	_5 60 0ft_	4/9	%		an and a state of the state of
, Lime plaster	. 245cft.	8/8		21/=	to a filter party and the large plant
, White washing	_245cft_	=/10,	/# 67 <u>6</u> _		
. Iron work	451bs_	70/	Mds.	16/.=	paraman di peramanan di peraman Peramanan di peramanan di perama
11 Chir wood work	#1898		.set	_88/ <u>-</u>	an ar iga - Piancady (1907)
	1 Job	L. L.	8.	30/= 	rain agus bha an t-mailthe
	Angelonia de la companya de la comp				.295g/÷
	ero-prijestaja je nastinisti Prijestaja je nastinisti				78.7
		-Sd ₊ -1	, D., 71	nnd-liter#	roman e e e e e e e e e e e e e e e e e e e
	a sa Pagalas (garaga) aga sa sa			15,2,22	
		77	LLive.	Enginaer.	
- Tot details see page	56-59				
					and the state of t



ESTIMATE OF staff quarters.

Description of work.	Quantity.	Rate.	Amount Rs.	Íotal. Rs.
Excevetion of founds	4 6 58cft	14/- %0	65/	
. R.S. Masonry in lime	11413oft			and the second section of a planetic content of the second of the second of
. R.S. Wesonry in clay	4197Gft		1931/-	and the second s
. Eiwari patent sletes	365£1			inger (upo), commissioner production in a grant color deligation of the forest color
. R.C.Work including iron	1640ft	. 3/8 . cft.	574/	to area di ular siliga, ya karingi apalinin uafan nagaribana sayar basa sayar ba
. Chir wood work	318Cft	3/4 cft	_ 1033/-	College of a copy again, it is not been appeared in the college of the college of the college of the college of
. 1½" chir wood planking	956 sf t	94/9 %	932/2	n grand described as a common or given a service of the selection of
; for chir wood planking	1731sft	30/5 %	525/-	and the second s
. Line pointing	29363ft	4/\$\$	125/-	early funding the place of the second developing the second as the property
O, Lime plaster	45343ft		385/-	ad into a callege la grava esperante en proposition de proposition
1, Coaltaring			15,/	See a fact consequence of the second section of the section o
2, Site clearance	do-		60/	ge (de mensoerdam synchologische Statische Sta
3. White washing	4634 sf	~ /4.0.46%	30/	
4. Pannelld door leaves 1½"	255954	2/4 sft.	∴5 10/ —	Control of the Contro
5. Barth Cllling	THE NEW GRADIES AND A SECTION	-14 <i>/-</i> %0	uje po nje iz sama no na diversit knjih njih prijekova div	An in the transfer of the Section of
a. Lime concrete		47/+ 4	148/	erich mit Anne et eine er eine
7. Tron sheeting including labour of fixing	1806Cft	_65/	117 4/= _{	
B. Ridge	151271	1/9 Rf4.".	:236/ 4 6	
. Iron work		_30/ <u>+</u> _nde_	129/	
), Painting & Varolshing	4,31Mg	<u> </u>	100/=	
i. Saucer drein	8753£t	<u>/10/= Sft.</u>	547,/1	and the second s
2. Hill outting	LB619OCT	: 22 <u>/4 /</u> 5	4 (GGR/-	18,532/-
	and the second second			
	and the second s		and the second s	
	_ Si, B.O	<u> Munimicalif</u>	# 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Andreas and the second of the
na dia manana manan Manana manana manan	i andre de la companya de la company	<u>. 16.</u> 2.52		
		e Tagineer		· · · · · · · · · · · · · · · · · · ·

ESTIMATE OF superintendent's quarter.

Description of work.	Quantity.	Ra	te.	Amount Rs.	Total. Rs.
1. Excevetion of founds	30380ft	14/=	яo	en in meningan, i salih albahan engan	and the second s
E. Lime masonry	4971Cft	51/3		2545	and a survey of the survey of the superior of the superior of the survey
3, Cement masoury	328Cft	130/-		4	mercenne i sa majpropret permeterance e circu
1. Clay mesonry	1626 Cf t	46/=	edir va y d holairide.	248	na kon sa sa katana kaka na kana na sa sa katana kaka kata ka
5. R.C. Work including iron	117024	3/B	cf.b	396	Marie Carlot e visioni di se prima por di segoni di Carlot e di Servici di Servici di Servici di Servici di Se
S. Lime plaster	2855Sft	8/8		243	tonia wakina kati na makaziya wakina kati aliku aliku aliku kati ya kati ya kati ya kati ya kati ya kati ya ka
Zagarina a Likalista a 20 ak 2 ak kateka kate 2 a maran karina ini iningari ang mangari na mangari ang mangari a	1894 sft	4/9	The state of	a bila i agai Antigitain	man ini nanan waka ji wasanin in 1980 ya masa mata waka
8. Chir wood work	185Cft	3/4	cft	601_:	na adipanta ya ga na kata da a a a a a a a a a a a a a a a a a
9, 👫 planking for roofing	1836Sft	30/5		557	ik kanada sa sagajar ar ipar arang pingka produkti ang pangan na bakarang
10. Iron sheeting with cost of	1836S£t	65/-	1	1193_	man description copy or and LP 65 the area of Alberta
fixing 11. Ridge	lo2sft.	1/9	Sft.	na adamin'ny tronona ina dia 2014. Ny taona mandritra ada	Paris de Signa de la Caracteria de La caracteria de Caracteria de Caracteria de Caracteria de Caracteria de Ca
12. Glazed & panellod doors &	272Sft	2/.	.sft	544	
13. Cement concrete filling	loact		antelogical.	285	gare year aya kara kara daga daga daga daga daga daga daga d
14. Lime concrete filling	468Cft			220	kalang samu, daga bangg majarang 1944 bah saggan ba
15. Barth filling	124.8Cft.		5,440		A real molecular property with the contract of
16. Iron work	Wds,118e		1.786476.07	68	and the same of th
17. Site clearence	<u> </u>				and the second s
18. Painting & Varnishing	and the second section of the section of t		B	60	
19. doeltaring	A Company of the Comp	1	\$		kan yang impanya dipunya di punya di persebagai di pengangan di pengangan di pengangan di pengangan di pengang M
20. Saucer drain	9065ft 28555ft		120 100 100 100	566 10	8400/*/
E1. White weaking	e de la companya del companya de la companya del companya de la co				
	185+70				
		P.G.	F a F's L	emiclife	
				16,2,22 Engineer	
			V 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
			Andrew Colores		

ESTIMATE OF Sweepers Hut.

, , , , , , , , , , , , , , , , , , , 	Description of work.	Quantity.	R	ate.	Amount Rs.	Total. Rs.
1.	Excevation of founds	52ocf t	14/-	% 0	7	to the transfer that are also become
2 2 m	Hill outting	1960Cft	22/5	760	e un discourse expensive And Surgery	of comment and history days and he would be
7,	Lime masoury	1027	51/3	Ja.	525	
4.	Clay mesonry	5230ft	46%	To	240	e promise de la companya de la comp
S. Section	Chir/wood work	22,190ft	3/A.	Cft	72	Secretary and adjust some factorists of the
	?" Plauking	240sft	30/5	ert.	73.	en e
	Ridgeing		1/9	Ret .	, a t series en la califa (150 0 / 4 m).	and the second s
8.	Iron sheeting including fixing	240SI	t 65/	Z.	156	
9.	Lime pointing	884 B £t	4/9	<i>A</i>	40	sing pages (18) see also area discussionistic at la
10.	Lime plaster	4045ft	8/8	%		
411	Earth filling	120Cft	14/-	<i>5</i> 60		om vassa kanod ar sijamaki jomoj syglogas os sasa
12.	Stone peving	30Cft	48/-	Ja .	.14/4	ar and any stage of the Artistation of the stage of the s
.13,	Site clearance	1700	L,	8,:	50/	
14.	White washing	404Sft	THE SET HOLD			Logics of the State of the Stat
15.	14" door leave	Sacrt			108_	egyn St. I beddynau'r dden y o'r ren yn y gydd
16,	R.C.work including iron	13,13Cft	南非洲的抗		46/4	Angersania e e e Andrei e e e e e e e e e e e e e e e e e e
17.	Iron work	15,54	建筑设置	洲内公顷间307日	6/4	trace of the state
	Coaltating	29 a. deligi bili yakera ili si-adipagaa dilappaa ili sere dala dal	_L,	energiiyatki, M airce		of control man in the control of the
ade Sugar i	Painting & Varnishing For details see 1888			8.		1504/-
V			Sd. 3	i di	nnicliffe 16,2,22	
			ec.	uive 	Inglneer.	
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Maini Tal Hydro-Electric Scheme.

ESTIMATE OF Gook bouse in connection with power house Supdt. Quarter.

Description of work.	Quantity.	Rate.	Amount Rs.	Total. Rs.
1. Excavation of founds	toactt	15/4 %0		
2, Rubble stone masonry in lime	538014	51/3 %	a. i a supre a sant Post Table Sant Sant Sant Sant Sant Sant Sant Sant	- Papa di sana na manakansakan masa dispunika
3, edodo- in clay	4910ft	45/\$ %	283	· Mary and the second consequence of the property of the constant of the const
4. R.C. Work including iron	110ft	3/8 oft	39	er skale i ka filologi 190 er skip verkisten kriga i ski i k gjetar hang klajper
5. Line pointing out side	351Sft	4/9 %		ga a ta ga a marin a gund atmagin and a san dispensional designed and a ga a san a ga a ga a ga a ga a ga a g
6. Lime plaster in side	3955ft	8/8 %	34	is the same of a significant for the same of the same
7, Chir wood work	21590f.t	3/4 eft	an esta parte se estribuido de Os anales	et en domin () in committe en bedoor benedie de bestelling de volgeige fan
8, Iron work	64,921bs	30/- Md	24	
9. Fammelled door & windows	39871	2/- sft		age of the section of
10. }" planking for roofing	272sft	50/5 %		
11. 22 B.W.G iron sheeting for	2725f1	65/- 8	177	
42. Stone paving in floor	44 CE 1	48/- %	21	anomia e paraga e espera disposa de sur la significación.
13. Barth filling in floor	44 Oft	14/- %0	4.	galang kanasakan ngganara sa manasakan nanggalan dalan sa nanggalan sa
14. White weshing	3955££	-/10/- %		. Some sense the sense that the sense of the
15. Coaltaring	1 70b			and the state of t
16. Site clearance	1 Job.			1058/-
Tor details see page	76=79			
	and the second s	sd. F.D. Tup	nicliff	
and the state of t			16.2 .22.	and the second s
		Oxecultive b	reineel.	
		and the second s		and the state of t
	er og er generaliste skyle skyle skyle	Agricultural designation of the second		
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	and the second second			Anna (Samo) and The Same (Same
		And the second s		
081-SE-+1920	ng garana ang katalong ang ka	<u> </u>		

ESTIMATE OF value chamber at commencement of inlet pipe.

	Description of work.	Quantity.	Rate.	Amount Rs.	Total. Rs.
and the second	1. Excavation in hard soil underoad. with Belling out water	1 Job	Ĺ. S.	500/-	
	2. Cement mesonry	894Cft	145/ %	1296/-	many and the second
	3. Cement concrete	75 C ft	1/12 %	131/-	and the second of the form of the second of
	4. Sal wood planking	32,25Cft	9/12	344/-	er en
The same of the sa	5. Iron straps	15 Nos	@ Rs2/-ea	sh 30/e	e de la companie de La companie de la co
	6. R.C.Work including iron work	39cft.	3 / 12 oft	146/4	entre en la companya de companya de la companya del companya de la companya de l
	7. Site clearance	1 305		10/-	
	8. Cement pointing	3e7Cft	15/- 7	55/=	. 2482/÷
		and the second s			g Markey #
Language (1)		akana di Salahan	sc. P. D.T		
in the second			Executive	16,2,22 Engineer	
	. For details are page				
The second		All of partial and a place of frequency			
Section in		garanti di kacamangga tang sababa Salah salah sa			The state of the s
7			*		

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ESTIMATE OF Inlet chamber & 20" intake connection from lake.

	Description of work.	Quantity.	Ra	te.	Amount Rs.	Total. Rs.
1. (8)Excavation of hard rack &	and the second s	Activities to the second			
AL W. V.	boulders with dismentling	16450cft	60/-	%0	987	en e
/ h) -do- for 20" intake pipes	33200 "	80/-	%°	2656	TELESCOPE CONTRACTOR OF CONTRACTOR SPECIFICATION OF THE STATE OF THE S
er a marie de la company	R.C. Conbrete	3328 "	1/8/=	oft	4998	grand, plant a restriction to the plant of t
	Cepent orsonry	17507 "	130/-	B	22759	manger of the state of the stat
The second se	Lime masoury	988	55/-		543	and the more activities of the same and the
4. 5.	Cement pointing	3393sft	12/-	4	407	debruse and the state of the authorized in page of the STATE of the ST
college and control of the control o	P.C. Fillet	56 oft.	1/8/	cft.	84	1883 - Santa and Andrews and Angeles a
6.	Cement plaster over fillet	1735ft.	22/=	1		and the second section of the second
	R.C. work excluding iron	1662eft	3/2/	aft,	5194	and the state of t
	Iron work	28 Mds.	30/-	Md.	540	Bringing a real real of the distribution of a real state of the paradoxing in
9.	Chir-wood planking	34 oft.			125	and the second s
10.	Steps	68 No.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	群 电极压 医化	136	Table Memory of the first Carpet House State Committee (1) and the second state of the
14.	, Salwood shutters complete	165 014	3/4/	ost.	556	e productiva de la companya del companya de la companya del companya de la compan
and the second second second	with rings and bolts.	And the second s			and the contract of the contra	of management for many approximation of consideration of
13.	Puddle clay including	· 2580 *.	1 /9/.	. 11	1418	Angles are really the same
	carriage from Ayarpata	6767				40,715/
petry a spring various	and the second	daren 1255 eta barre eta propieta de la esta esta esta esta esta esta esta est	garge and the second		an an angle complete continuous consequents	CONTRACTOR OF THE PROPERTY OF
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and the second s	For details see	Noe 81:	B):	ing to provide the second	tarten g erakeasa ka japan de karatar karata	participate the former and several gap and a separate district a small fitting
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ESTIMATE OF thrust blocks & masonry of pillers for power pine line.

1. Excevation in soft & herd rock. 270542 Cft 55/-%6 9469 2. Cement concrete 3. R.G.masonry in lime morter 254020ft 52/- % 15209 4do- in cement morter 292650ft 130/- % 38045 5. Cement playter 4094 Sft 20/- % 819 6. Cement pointing 252298ft 12/- % 5027 7. Squeer drain 210 Rft -/10/- Rft 131 8. R.G.Work 9. Dismantling & rebuilding) 2 10ts at Ginzi Par 10. Bailing out water of thrust hlock founds in mela. 1 Job		Description of work.	Quantity.	${ m R}$ a	ite.	Amount Rs.	Total. Rs.
## Prock. 270542 Crt 35	A STATE OF THE STA						
2. Cement concrete 3. R.S. masonry in lime mortor 25402Cft 52/- % 13209 4do- in cement mortor 29265Cft 130/- % 38045 5. Cement plaster 4094 Sft 20/- % 819 6. Cement pointing 25229Sft 12/- % 3027 7. Saucer drain 210 Rft -/10/- Rft 131 8. R.C. Work 9. Dismantling & rebuilding) 2 futs at Gangi Par 10. Bailing out water of thrust block founds in mala. 1 jeb E. B. 200 93.552/- For details see page 90 - 95.	1. Exca	evation in soft & hard		a . He pool of so	and the second	war the transport of the same	
3. R.S. masonry in lime mortor 25402Cft 52/- % 15209 4do- in cement mortor 29265Cft 130/- % 38045 5. Cement plaster 4094 Sft 20/- % 319 6. Cement pointing 25229Sft 12/- % 3027 7. Saucer drain 210 Rft -/10/- Rft 131 8. R.C. Werk 140 Cft 3/8 Cft 490 9. Dismantling & rebuilding 1.5.1 jcb 2 Futs at Gangi Par 1 for 3.150/- for each 500 10. Bailing out water of thrust block founds in male: 1 job L. 3. 200 93.552/- For details see page 90 - 95.		rock.	er i kristina sun er fra har i manna s	والمتحفية ويتحا	in a tasa see a	des i di distribution in di	
4do = in cement mortor 5. Cement plester 4094 Sft 20/- % Si9 6. Cement pointing 25229Sft 12/- % 5027 7. Saucer drain 8. R.C.Work 9. Diamentling & rebuilding \ 140 Cft 3/8 Cft 490 10. Bailing out water of thrust block founds in nels. 1 job L. 3. 200 93.552/- Sd/ F.D.Tunni liffe- 16-2-21.			Marin John State Company	er armi ar i ar	edicar programa in		the theory the control of the contro
5. Cement plaster 4094 Sft 20/- % 819 6. Cement pointing 25229Sft 12/- % 3027 7. Saucer drain 210 Rft -/10/- Rft 131 8. R.C.Work 140 Cft 3/8 Cft 490 9. Dismantling & rebuilding) L.s.1 jcb 2 Hots at Gangi Par for 18.150/- for each 500 10. Bailing out water of thrust block founds in mala. 1 jcb L. 8. 200 93,552/- For details see page 80 - 95. Sd/ R.D.Tungi pliffe. 16-22.	3. R.S	masonry in lime mortor	25402Cft	52/-	70	13209	
6. Cement pointing 25229Sft 12/- % 3027 7. Spucer drain 210 Rft -/10/- Rft 131 8. R.C.Work 140 Cft 3/8 Cft 490 9. Dismantling & rebuilding 1 L.S.1 job 2 Huts at Gangi Par 3 for is.150/- for each 500 10. Bailing out water of thrust block founds in nale. 1 job L. S. 200 93,552/- For details see page 10 - 95. Sd/ R.D.Tunyi liffe. 16-222.	4 do-	· in coment mortor			The series of the series		ted to with the Property of the State of the
7. Saucer drain	5 Ceme	ent olester	4094 Sft	20/	- %	819	kanana sa ini alah dan menghipa dan beramanan jarah sa me
8. R.C.Work 9. Dismantling & rebuilding L.S.1 job L.S.1 job for is.150/- for each 500 10. Bailing out water of thrust block founds in nels. 1 job L. 3. 200 93.552/- For details see page 90 - 95. Sd/ L.B.Tungi liffe. -22.	6. Ceme	ent pointing	252295ft	12/	76	3027	
9. Dismantling & rebuilding) 2 Huts at Gangi Par } for is.150/- for e.ch 300 10. Bailing out water of thrust block founds in nels. 1 job L. 3. 200 93,552/- For details see page 90 - 95. Sd/ J.D.Tungilliffe. 16-3-22.	7. Sau	er drain	210 Rft	-/10/	- Aft	131	en e
2 Huts at Gangi Par } for as. 150/- for each 500 10. Bailing out water of thrust block founds in nels. 1 job E. 3. 200 93,552/- For details see page 90 - 95. sd/ 1-D.Tungi liffe. 16-2-22.	8. R.C	.Work	140 Cft	3/8	Cft	490	apadpad sama a pagada sa
10. Bailing out water of thrust block founds in mala. 1 job L. 3. 200 93,552/- For details see page 90 - 95. Sd/ L.D.Tungi liffe. 16-22.	9. Dis	mentling & rebuilding)	L.S.I Je	Ъ		was in a second con-	and the state of t
For details see page 90 - 95. \$\frac{1}{3}\$ \$\fra	. 2 ii	ate at Gangi Par }	for 33.1	50/-	€or e	ch 300	a de la compania de La compania de la co
For details see page 0 - 95- Sd/ 1_D.llurgi 111fe.	-10. Ba	iling out water of thrus					
sd/ 1.D.Tungi lifte.	blo	ck founds in nels.	. job	L.	В.	200	95,552/+
sd/ 1.D.Tungi lifte.						The second of th	
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ESTIMATE OF Power Pipe Line (steel & C.I. 10" main.)

Description of work.	Quantity.	R	ate.	Amount Rs.	Total. Rs.
Double 10" Steal Main &c for					
the necessary heads including					
Construction, Corriege, Laying and					
pointing complete also Screen fo			to the top of the top		and the second of the second o
Inlet Chambers.	marki sa ji a jiha kara		en que esta pesti		and the second second second second
Neterials	and the second s	and the second	a disebah saka sebagai	1,75,275	al all a recommendations and a consequence are
-do-			a la galan kungg	76,666	
Screen for inlet chamber		en en skriver		2,000	la. Managana ayan kadapatan ayan ayan alama
Supervision	and the second second second	er er is die sy van		6,800	
Corriage and Laying	er en		the same of the sa	23,800	galy Mercury Lag page sugar and a
Duty & labour at Calcutta				2,355	
		1		2,86,894	
Add 5% interest.				14,344	and the second s
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	a company	**************************************			
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ESTIMATE OF Pipe Specials.

	Description of work.	Quantity.	Ra	te.	Amount Rs.	Total. Rs.
and a special section of the					ar english sama ya	
and and the second The second second second Second second second second second	Near power House.Pipe spe-					
750 Service - 1110 - 1110	cials &c., to be supplied	Andrews Andrew Andrews Andrews				
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salas pais 10 17	House,		1/52		20,501	the substitute to the decrease and appropriate states and flavorating modes that also
	-dodo- taper pipes.	Panagang Pang Sangang Sangang Sangan Panagang Pang Sangan Sangan Sangan Panagan Sangan Sangan Sangan	1/52		27, 897 48,398	@ 1/3 56464/-
				Secretarian		
					16-2	nnicliffe. -22. Engineer.
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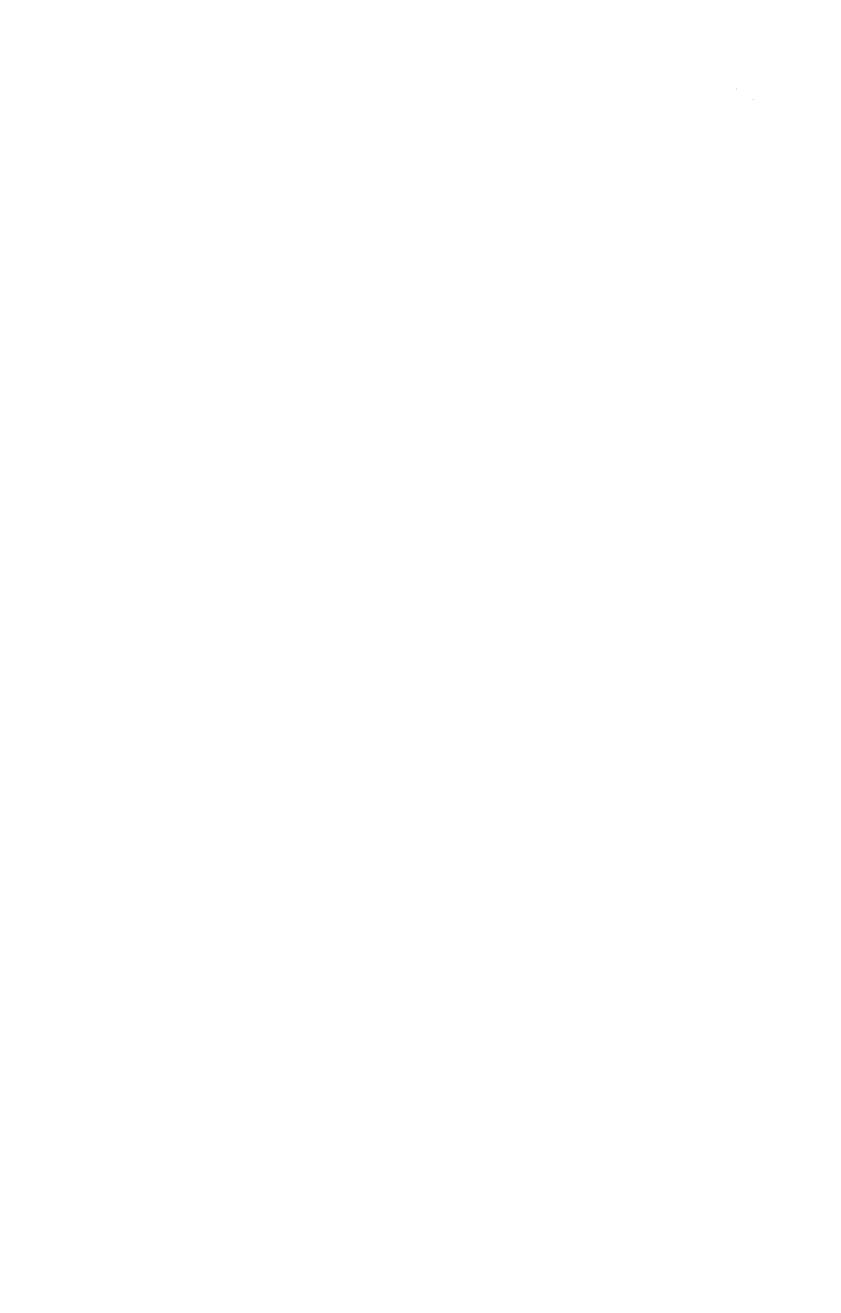
ESTIMATE OF Specials &c., at inlet chamber.

* Description of work.	Quantity.	R	ate.	Amount Rs.	Total. Rs.
Specials grooves slutte	galanten, men arabatan dari membelah di Hambiran di Hambiran dari berangan dari berangan dari berangan dari ber	e tan wat tu to the to	معادد می این این این این این این این این این ای	and a grant of the control of the co	
velves &c., to be supplied	and the second s	analista are		and the many of the second	
at inlet chamber by Worthing-	an Language a strong to be that the extract the feet	nga giran kecir sakire sa	grace options between	Marine and the property of the control of the contr	and the second
ton Simpson.	eskinas, ja aisere gyvesi – s ancern ekse erin	per el significa estad situativa	grand and an experience of the state of	8,700	en is issummer is som 8 sys. Folgody of the see transition and res
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yang terminakan kantang menghapanggapang Asar saya di menggapang Asar kantang di Alipentakan penggapang Asar kantang di menggapang di menggapa		an lage or he had the		gang diagan ng digitan yang kenandan Persentan Andrew C	angen er stadt i se er en en er
ete man en discontrato de departematique de la responsa proprietar y tras personal de la policie de la combina	and the first of the state of t	ga gga marangan an filipad (and the state of t
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and the control of th	ngga kirangi akupa , milangga pamanga sayinga rangga	pleased plantage	Land Comment & the Comment	16-2-22.	But and come if the contract of the contract o
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	gagaga ya saga canbantania	ing a particular of the same of	um ka sagarah angara	gamente - se for experience a faith con to require	
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Citrospholosatory and interpretations with the community and and the play and a supplementation of the community of the commu	anne and all specimens are a dispersion of the				



ESTIMATE OF Transmission & Distribution.

Description of work.	Quantity.	\mathbb{R}	ate.	Amount Rs.	Total. Re
The state of the s			1		
	PRIP HARMAN PRINCIPAL PRIN				
Copper wire ordered from		a company of the contract of t	an espay to proceed	and the second s	n san santaka sa man manana bahan sa baharan galam sabahan baharan
British Insulated & Helsby		a sala pendirenan	e de la compansión de l	en agracian, estado santestrado este sea	taling of the second of the se
Cable Ltd.		ALLEY OF THE STREET	an contraction that	75,000	and the second of the second o
and a special control of the second s	egyptation of the property time and a state of the second and the	and the second second second	says ere an ossa remain		tiga in a grand adarbiga participa de como en como proprio de proprio de la como de como porte por en desperad
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and the second s	agenta de la desta de la composição de la desta de la composição de la decida de la composição de la decida de	ر الهود و در	5 47.	₩ ₩ 146 -16-2-2	nicliffe.
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		and the second s	and the substitute of the subs	and the state of the Lindburg on the state of the	
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Revised.

S. B. No. 14

ESTIMATE OF Sukha Tal Sub Station Euilding.

Description of work.	Quantity.	Ra	ite.	Amount Rs.	Total. Rs.
1. Levelling site	1 Jeb	L,	S.	100/	A Company of the Comp
2. Excavation	2817 Cft	16/-	%0	46/-	and the second s
3, Lime concrete	870 Cft	35/-	70	305/	
4. R.S.Lime mesonry	7091 Cft	54/-	%	3829/-	
5. R.S.Clay mesonry	548 Cft	48/-	%	263/-	The state of the s
6. R.C. Concrete excluding iron	410 Cft	3/5	Cft	1358/-	
7. Cement concrete	'58 Cft	2/6	Cft	137/+	
8. Stone Paving	140 Cft	33/-	%	46/-	
9. Lime plaster	697 Sft	9/-	%	65/-	and the state of t
10. Cement rendering	464 Sf1	12/-	76	56/-	
11. Lime pointing	5077 Sft	5/8	76	279/-	
12. Remmed earth filling	351 Cft	14/-	%0	5/-	
13. White washink	697 Sft.	/10/6	1%	5/-	
14. Panelled glazed door &	153-8£t	de la companya da co	Sft	344/-	
windows leaves. 15. Chir wood work	32,45Cft	and the second of the	Cft.	97/-	
16. 4"Chir wood Planking	288 SI			126/-	Programme and the state of the
17. Iron sheeting including	598 Sft	🏙 : 1. 英格兰的复数形式 - 三日	110 TANKS (10 10 10 10 10 10 10 10 10 10 10 10 10 1	259¶÷	
18. Painting & Varnishing	393 Sf	6/8	1%	26/-	
19. Saucer drain	4 6 4,55				
20. Iron work	29 Mds.	Pessert	Md.	870/ - 30/ -	
21. Coal taring	1 Job		S.	70/ -	
22. Site Cleanande	1 Job	L.	₩8.		8598/÷
and the state of t		a Alaska estadore	estamonte en		1975 - Landson 1971
	end griger with the averti-	90	¥/ ₽.	g. Tannid	
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and the state of the	de de la companya de	Secret Same	100.5	HOTAS DAY	
For details see page. 96	4022		1 1	er vid gereke (gerek)	
	10.00				

KSTIMATE OF Katchery Bash Sub-Station Building.

Description of work.	Quantity.	${f R}$ e	ite.	Amount Rs.	Total. Rs.
1. Excavation	2021 Cf	16/-	%0	32	The second secon
2. R.S. Masonry in lime	7008Cf	58/1	5 %	4130	
3. R.Sdo- in clay	548cr	52/1	2 %	289	
4. R.C. Concrete including ire	n 410 C	t3/5	cf t	1358	
5. Cement concrete	58 cz	t 2/8	sft	137	
6. Stone paving	140 C	t 33/	· 70	46	
7. Lime plaster	697 sr	9/-	%	63	en de la companya de
8. Cement rendering	464 ST	: 12/-	%	56	
9. Lime pointing	5 0778f	5/8	%	279	
10. White Washing	6975ft	-/10/6	%	5	
11. Panelled & Glazed leaves					
for doors and windows.	153 S£	; 2/4	sft	344	
12. Chir wood work	32,45 Gf	5 3/ -	cft	97	en e
13. ‡" chirwood planking	288 sft	/-7/-	are	126	en de la companya de
14. Iron sheeting including		ti desgrete desgraphic	Assistant Land		and the second s
lobgur of fixing	398 Sft	61/11	を。	246	Clarific and Clarific to the control of the control
15. Painting & Varnishing	393 Sft	678	70	26	
16. Coal taring	1 Jeb		5.		Anne agree have a second object to substitute the
17. Site clearance	1 Job		5.	98	and the state of t
18. Iron work	28.33			850	The state of the s
19. Saucer drein	231 Sf	-/1 0/	-Sft	144	
20. Lime mesonry for retain in wall.	6 169 CT	52/3	/-%	88	
21. Cement pillars masonry.	9 cm	150/	- %	12	Contents:
22. Rewari pattern slates	16 S£	3/ 12	3ft	28	
23. Round earth filling	7156 Cf	14/-	% 0	100	8579/+
The state of the s	te de la companya de	land of the state			and the second of the second of
and the substitution of th	TO THE PARTY OF TH	and the second second second	distribution of the		Language Commission Commission
For details see page 103-107		5 a/ 		Tunnick 2-22	and Carting the Company
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Naini Tal Hydro-Electric Scheme.

ESTIMATE	OF Coolies	Shed.	
			4 4

Description of work.	્યુલકાતાનું.	Ra	te.	Amouns Rs.	Total Rs.
Million and a state of the stat	and detailed.	4		75/	
Hill cutting & excavation				35/	
Lime masonry	20410ft			1021/-	
Lime pointing	1795Cft	5/8	%	99/-	
Earth filling	186Cf t	15/-	%0	3/~	
14" Chirwood leaves	69Rft	2/-	rft	138/+	
Chirwood doors & frames	66.270f	t.3/1	lest	243/-	
Iron sheeting including fixing	865 Sft	61/1	1 %	534/-	ing a salata ya ta shinasana
Ridging	60 Rft	1/4	rft	76/-	
. Coaltaring i job		L.	S.	5/-	
), Iron work 1 job		L.	s.	10/4	Plants
L. Site clearance				15/-	2178
and the second s		i. Madaga selen		and the second of the second of	, a
	r details	see I) PEos	108-109.	e de la companya de l
			B ā /-	F.D.Tunn	ioliffe
and the second s	All a Property Special Special Community	a construction		16/2 ecutive	/22.

Naini Tal Hydro-Electric Scheme.

Revised.

Revised.

Petrol Cell.

M. Upod skillaði og þið 1278-aftir mess hafni falklifarðiði. 300 f. 13 Marti, styrlating bærða sam þanda þer þa	(And A. 1.11 (1974) (1974) (1974) (1974) (1974) (1974) (1974) (1974) (1974) (1974)	eres	Madadatensambili ganggagga	n partitur i supplementation i	MATURE TRANSPORTED TO THE STREET OF THE STRE
Description of work.	Quantity,	Ra	. 5 e.	Amoung Rs.	Total Rs.
1. Hill cutting.	43520ft	25/-	%0	109/-	
2. Lime concrete	2560ft	50/-	%	128/-	
3. Kime masonry	1187Cft	62/-	9%	136/-	
4. Arch masonry	197Cft	75/-	%	148/-	
5. Chirwood work	3.830ft	3/8	Cft	14/-	
6. 1" Leave panelled	12 Sf t	3/~	8 ft	36/-	
7. Cement pointing	96 6 ft	13/-	%	14/-	
8. Cement plaster	483 Sft	22/-	7	106/-	in the second
9. Lime pointing	65 Sf t	5/8	%	4%-	
10. Iron work	38 1 bs	30/-	Md	14/-	
11.Earth filling.	574 C f t	20/-	%	115/.	
12.Painting & varnishing	1 job	L.	8.	8/+	
13.Coaltaring.	1 job	LL.	8.	5/-	an emineral de Orico de La la companya de Orico
4.Site clearance	-do-	•	(10-	20/-	
5. Saucer drain	96.SIL	£ 1:2	/ set	:72/-	1529/4
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Par darati.		Juden Landers	a de la companione de l	P.D.Tun 16/ recutive	niclife 2/22 Engineer,
For details see) pages 1.	H-11			

Naini Tal Hydro-Electric Scheme.

ESTIMATE OF chowkidars shed in connection with Petrol Cell.

Description of work.	Quantity.	Ra	te.	Amouni Rs.	Total Rs.
.Excavation of founds.	216 Uft	14/-	%0	3/-	
2.Lime masonry	677 Cft	62/-	%	420/-	
3.Chirwood work	16.33Cft	3/8	cft	56/	
1.2" Planking for roofing	237 Sft	30/5	%	72/-	
5. 1" Panelled door leave	13 Sft	3/-	Sft	39/-	
5. Iron sheeting for roofing	237 Sf t	63/-	%	149/-	
7. Ridging	25 Rft	1/4	Rft	31/-	
3. Lime pointing	633 Sft	5/8	%	35/-	
). Earth filling	22 Cft	20/-	7/0	1/-	
.O. Iron work	381 bs	20/-	Mđ	14/-	
1. Painting and varnishing	. 1 јов	L.	g,	20/-	
2. Coaltaring	-do-	-d)	5/4	of the second se
3. Site clearance.	-do-) -	10/	Rs.855/-
For detail	sse pa	v jes 1	[2-11	3.	
	1 and	ga∕.	P.D	.Tumetet	iffe,
		, Di	cecut.	6/2/22. Lve Engi:	leer,
		Language of the state of the st			Section (Company) Properties
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Naini Tal Hydro-Electric Scheme.

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Description of work.	Quantity.	Ra	te.	Amount Rs.	Total Rs.
	And the state of t		may na diga ang ang ang ang ang ang ang ang ang a		en arise rike
1. Earth filling	554Cft	16/-	%0	9/100	
2. Lime masonry	1950ft	52/-	%	1.02/-	
3. Lime concrete	422Cft	45/-	%	190/-	
4. Saucer drain	2798ft	-/8/-	Sft	139/-	
5. Chirwood work	100.310	f t3/1	1.Cft	370/-	
6. Iron sheeting including labour of fixing	1542Sft	56/-	%	864/-	
7. Ridging 22 d	54Sft	1/4/-	RFt	68/-	
8. Rammed concrete	406Cft	20/-	%	. 81/-	
9. Site clearance	1 jor	1.	g.	10/~	
10.Cement pointing	2798ft	12/-	%	34:/-	
11.1; Panelled door leave	15 Sft	2/-	St	30/4	for a lower formal form
12.Coaltaring		Ž.	8.	15/+	a virgados de estados
13.Painting and varnishing		L.	S.	30 // -	
14. Iron work		j.	δ.	75/-	2017/-
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	see pag	6 8 11-	i-11 5	and representation of the second of the seco	Sample Bull specification
The description of the second	e positiva tradiciona		id/	7. D. Ju	nicliffe
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Naini Tal Hydro-Electric Scheme.

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Description of work.	Quantity.	Rate	e.	Amount Rs.	Total Rs.
is	والمتعارف والمتع			and the second section of the section of t	of the same of the
. Dismantling of Roofing & wood work	dou	L.	S.	80	
2. Two iron ranks cutting	one job	La	S .	300 2569	
) - HILL CHUVALE	02740Cf			220	
. Excavation	46470ft				
o, dement concrete of retain				17598 1190	
ing wall &c. R.S.masonry in cement mortar	9150ft			22335	
7do- in lime -do-	343620ft			5064	
3. R.U. WOLK INCLASSING	1447Cft		oft.	4611	
9. Cement concrete filled	1537Cft		0/\$ %	188	
10.Lime concrete	3920ft		70 %	754	
11"Plima hornay.9	13701Iif			272	
TY Camaria terros.	2265Lft 894Lft		76	22	
13. Paripan coating	480ft		of t	144	
14.Chirwood work of frames	40018				
15.Doors and windows	1	sk T	S.	250	
(a) Sliding door as per b		b L.	8.	60	
(b) Trap door -do-			Sft	1132	
(c)Glazed doors & windows	3.6Md,		_ md.		
16. Iron work	40 No.		- 6 8C		
17. Iron steps) L.			-141
18. Manhole cover	-do-		-do-	and the second of the second	
19. Pully Block 20. Painting and varnishing		Land Section	-do-	90	
20. Painting and armore 21. Earth filling	20470£	Land and the same	- 700	31	and servered
21. Barth III. 146	1382L f	and the second	y lf		f
23. Site clearance	l job	1	A R	S. 96	j
24. Bailing cut water	1 Job		\mathbb{L}) Landarie nebes
25. Iron work of girder 26. Knaranja masonry	77.8IC 612.0	WE 26	3/- Ow 3/- %	217 42	61.
26. Kharanja masonry par details s					e.D.Pu

ESTIMATE OF Pipe chamber at Pump House.

新华金州亚山东	Description of work.	Quantity.	Ra	le G	Amount Rs.	Total Rs.
4	Excavation	21260ft	15/~	76	32	
2.	Cement masonry	405Cft	130/-	%	527	
3.	Cement concrete	360Cft	3/-	crt	1080	
4.	R.C.Work including iron	122Cft	3/8	Uft	427	
5,,	Lime masonry	2730ft	65/-	%	177	
6.	Earth filling	240Cft	15/-	70	4	
7,	Cement pointing	5038ft	12/-	%	60	and the second s
٥.	Cement plaster	218ft	22/-	%	6	
9.	Lime pointing	159816	5/B	76	9	
10,	Sité clearnace	1 Job.	1.	δ.	12	2,383/4
	For details see page	a 130 - 13				
			sa,	r S	.D.Tunni 15/2, xecutive	cliffe, 22. Engineer.
N,P	en de la companya de		gan para di maggiornia		· 集 Line administration of the pro-	
and and a second	and the second of the second o	ences (1915) 2 Papellore				an an ann an Aireann an
	And the second s	III. Frysk valent proposition		property and the second	i vola se populari de la	
	and the form the continue of t		par sy tra Svettinsk			

ESTIMATE No.

DETAIL OF MEASUREMENTS AND CALCULATIONS OF QUANTITIES.

(for composite work).

Revised estimate of Power House Building.

(See Public Works Gode, Vol. I, Chapter, XI, paras 1178 and 1179.)

Serial No. and name of sub-		D	imensions.	The state of the s	Number	The Read For Land State of Company, Name and	**************************************
head and details of work.	Numbe	Lengt	h. Breac	lth. Height (or or	Total.	Grand Tobas
1. Hill cutting.		Brou	ight forwa	rd			
For levelling d	he sit	93 <u>₹+6</u>	and an	7 53 649 8	20044 17722		g.
		30 34	25/3 20	हि 3 5/2	1500 1700		
For increasing space of pipes. For levelling the	1	30 116	21 12	15/2 13	2363 18096		
house. For retaining wall	1 1	32 108 ₇	30 2 <u>+6</u> 1	3½/2 12	1680 5383		
-do- 2. Excavation of four	± ±	30 29	4 <u>5</u> 12 54 <u>12</u>		720 870	70078	ort.
Main long wall -do- end wall Long wall switchgall	2 2	864 184	5 <u>1</u> 5 <u>1</u>	5是	4902 1051		
End walls Retaining walls:	2	374 84 L084	5) 5) 5,73	PE	1066 485 4940		
-do	1 1	29	5+74 3 34 34	8+61 21 34	231 381		
Over R.Wall	1	96	03	2	<u> 760 18</u>	1334 pr (

13	4	7.4	Sam		
4	Æ	13	7	14-2140-1-14	u

DETAIL OF MEASUREMENTS, ETC .- (continued)

Sub-work		1	
	(Mary Indiana and Assessment Asse		
(for composite work).	에는 얼마를 가지 않는 것이다. 그리고 있어 같은 것이라고 것		

(See Public Works Code, Vol., I, Chip'er, X1, paras. 1178 and 1179.)

	process of the change of the c	Dimensions.				adar menteralaga	well to be represented that the second
Serial No. and name of sub- head and details of work.	Number.	Length.	Breadth.	Height or depth.	contents or area.	Total.	Grand Potal.
		Brought	forward				
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	Harry C.	i arr⊁ed ove⊭					

_DISTRICT.

ESTIMATE No.

(E)

DETAIL OF MEASUREMENTS AND CALCULATIONS OF QUANTITIES.

Sub-work.

Power House building continued.

(for composite work).

(See Public Works Code, Vol. I, Chapter, XI, paras 1178 and 1179.)

	Dimensions,				Number,			
Serial No. and name of sub- head and details of work.	Number:	Length.	Breadth,	Height or at pth.	contents or area,	Total.	Orand Total	
		Brough	t forward	\$ M #				
3.Lime concrete und	er four	ds.						
Long walls	2	86#	54	152	1107			
End walls	2	18 }	54	127	237			
Long wall switch	1	37≵	54	127	240			
End -dodo-	2	9 .	54	$\begin{bmatrix} \frac{12}{122} \\ \frac{12}{12} \\ \frac{12}{12} \\ \frac{12}{12} \end{bmatrix}$	109			
Floor of main bui	ding 1	78‡	214	3/8	631			
-do-switch galle	7y 1	294	114	5/8	127_	2451	Cft.	
P.C.Concrete.								
Main building	1	78#	214	1/8	210.	βa		
Switch gallery	1	2 94	113	1/8	42.4	þ		
Sill of door	2	11	24	ł	27:50			
-do- under bed plates of Turb	4 ines	134	64	5/2	728.05			
-do-	4	54	14	5/2	52,50			
₩ ₫ 0 #	4	7	 53 }	2	308:00	1360.	(P)	
<u>Deduct</u>	4	9	9/2	1		All and the same of the same o	jo 39 oft	
						SUNUA.	32 U.W	
					192			
P.								
							10	
	e Paris Island							
				I Company				

DETAIL OF MEASUREMENTS, ETC. -(continued)

State of the state					
Sub-work	n.		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	§ ·				4
and the second of the second of the second		 		And the latest to the latest and the	
(for composite work).					*
	🕶 a sa s				

(See Public Works Code, Vol., I, Chipter, X1, paras. 1178 and 1179.)

		Dimer	isions.	Number,			
Social Ac, and name of sub- need and depole of work	Number.	Length.	Breadth.	Height or depth.	contents or area.	Total.	Gran Total
		Brough	t forward	***			· · · · · · · · · · · · · · · · · · ·
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ESTIMATE No.

DETAIL OF MEASUREMENTS AND CALCULATIONS OF QUANTITIES.

Sub-work. (for composite work).

ower House building continued

(Ses Public Works Cod-, Vol. I, Chapter, XI, paros 1178 and 1179)

Serial No. and name of sub-		Dime	nsions,	Number,	ALLES AND LONG PROPERTY OF THE PARK OF	THE RESIDENCE OF STREET	
head and details of work.	Number.	Length:	Breadth.	Height or	contents or area.	Total	Grand Tobes
			t forward	6 - 1			
5. Stone masonry in]	ime mo	rtar u	to Pl	linth,			
Long walls	2	854	41	1	575		
-do-	2	844	4	1.4	508		
-do-	2	844	5 }		445		
-do-	2	843	3	#	<i>3</i> 81		
-do-	2	844	24	2)	105 9		
End walls	2	194	44	ŧ	132		
~do-	2	20	4	4	120		
-do-	2	20}	5 ŧ	*	115		-9
-do-	2	21	5 4	*	110		
-do-	2	21}	5 }	2)	349		
Long wall switch							
rallery	1	304	44	*	128 [
-do-	1	36	4	*	108, ,		
-do-	1	354 /	δł	‡	93		
		35	3	*	79		
		34)	4	24	.216		T
		94	4	1	64		
	2	10 -	4	i i	σū		A
	2	104	JE 🕌	ŧ.	55		
and the second of the second o	2	11	į.	i	50		
-do-	2	LL.		3 L	144	478£	
	1						
	4	ited ovie					
$T_{ m e}$	4					478 <i>6</i> (

DETAIL OF MEASUREMENTS, ETC. -(continued)

	Sub-work	*		and the second		. *	
		<u> </u>			*		
(for	composite work).						

(See Public Works Gods, Vol., I, Chapter, X1, paras. 1178 and 1179.)

- Andrews and any out-of-in-engineering of the comment of the state of	Dimensions.				Number.	ngalagistas (<u>Antoningang</u>) militarina adamaté sayara	**************************************
Serial No. and name of sub- head and details of work,	Number.	Longth.	Breadth.	Height or depth.	contents or area.	Total.	Grand Total.
		Brought	forward	₽ • •	The second secon		

			*				
					Police Control		
					eli		
						75	
					A		
4		16.					
*	<u> </u>	ried over		e en en			
	700			• •			

ESTIMATE No.___

DETAIL OF MEASUREMENTS AND CALCULATIONS OF QUANTITIES.

Sub-work.

Power House Building continued.

(for composite work).

(See Public Works Code, Vol. I, Chapter, XI, pares 1178 and 1179.)

Serial No. and name of sub- head and details of work.		Dim_{Θ}	nsions.	Number,	of the Control of the St. Thick is distinguished by the street	The state of the s	
	Number.	Length.	Breadth.	Height or	contents or area.	Total.	Grand Total
5. Stone masonry in	l ime in	or Bipugh	t forward		4786		
Deductions							
Tail race	i	14	43	1	5		
	1	14	4.	å	5		
	1	14	3)	1	4		
	4	11	S	÷	3		
	1	-13	24	73	5		
	1	24	13	7/4	8		. 193 - 2.11 193 - 2.11
R.C.Column	1	5	5	54	_138	<u>166</u>	na e
Superstructure.						4630	
Long walls	2	822	2	165	6124		
Side walls	2	22	2	202_			
Fallery long wall					1797	18,029	
-do- C. Walls	1	34 ' '	2		1768		4
	2	12 33 3	2	26	1248		
!ables	wall 2 2	822 3.4	14	4	998		
Hallery lone watt		25	1	3}	259		
acove ninsana	1	J4	4	5 <u>7</u> 12 11	285		a Tender Mariana
Pillare	1	2	2	11	44		
All projection unde R.C.Riof	r 1	1 00	2				
			-		100 .		
"P.							
					1000		
	1						

DETAIL OF	MEASUREMENTS,	ETC.—(continued

Sub-work

(for composite work).

(See Public Works Code, Vol., I, Chapter, X1, paras. 1178 and 1179.)

	ASSTRACTOR TEXTS OF THE TEXTS O	Dimei	isious.	_{род} ия (сталявальтай олгану _{прав} ання	Number,	entrangentation entrangental entrangent	namentum sula sun para para para para para para para par
Serial No. and name of sub- head and details of work.	Number.	Length.	Breadth.	Height or depth,	contents	Total.	Grand Total.
		Brought	forward	» • •			
							1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1
							grain Tariba
	top Dry					Å.	
						Y.	
	and the file						
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						uni 11 anyi 33	
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	y Car	ried aver					

ESTIMATE No.

DETAIL OF MEASUREMENTS AND CALCULATIONS OF QUANTITIES.

Sasb-work. Power House Buildings continued. (for composite work). }

(See Public Works Code, Vol. I, Chapter, XI, parcs 1178 and 1179.)

		Dime	nsions.		Number,		
Serial No. and name of sub- head and details of work.	Number.	Length.	Breadth.	Haight or	contents or area,	Total.	Grar o Total
		Brough	t forward	####			
Retaining wall	1		2463	12	5546		
-00-	1	30	4x12		720		
-do-	1	39	5x12		670		
-do-		108	for 10 2 constants	144	4908		
-do-	1230	53	5x12 15x 15x 2x 2x	*	281		
-do-	4.	(1) 电子等数据数据数据数据	ζ ą	54	_581_	29944	oft
Deduct							
Opening in gallery	1	25	2	15\$	e 777i		
door	2	8	2	11	352		
-do	1	5	2	84	63		
Windows	13	4	2	54	572		
C.S.Window	21	4	∆ }	34	295		
Lintel of doors	2	10	2 . 2 .	13.	60 .	10 (15 d)	
+d p-	Ĺ	7	2	14	18		
-dq- of windows	18	i Shi muse	2	1	. 145		
-do- Cdo-	- 6	51	14	2//3	52		
-do-	2	5,	2	2/3	14		
-do-back & front	10	Ďě.	18	5/12	45	2365	
		100				27089	
The state of the s							
		3.040					
		arried over					

DETAIL OF MEASUREMENTS, ETC. - (continued)

Sub-work	· · ·	100	1 4 4	.1.			11.0		
man in the second second second	5	-	 			 100			
(for composite work)					1 43 3				

(See Public Works Gode, Vol., I, Chapter, X1, paras. 1178 and 1179.)

		Dim_{i}	sions.		Number.		The state of the s
Serial No. and name of sub- hoad and desails of work.	Number,	Length.	Breadth,	Height or depth.	contents	Totul.	Grand Total.
		Brought	forward				
							*
							#
							• 130 m
			gs. "1			EL .	
			2 1 El				
					pro S		
							en e
	<u> Paul de la constant /u>						177
	Car	red over :	***	and B.			

__DISTRICT.

ESTIMATE No.

DETAIL OF MEASUREMENTS AND CALCULATIONS OF QUANTITIES.

Sub-work.

Power House Building continued.

		Dime	nsions.		Number,		
Serial No. and name of sub- head and details of work.	Number.	Length,	Breadth.	Height or cepth	echicuts or area,	Potal.	Graid Totus
		Brough	it forward				
S.R.C.Conorete.							
R.C.Pilkers	1	5	5		18.75		
-d o -		5+23 svery glycomorphies	14	1	3.38		
sm (j Q sm.		14	14	7‡	22,29		
-do-	1.	14.13		•	0.56		
-do-		14	1‡	10	15,62		
ap of pillars	1.	2.1	44	4	4.37		
eam	1	27	2	2 4	L17.00		
Inder rail	2	324	-2 <u>†</u> 24	_ 3/6	.39 .95		
-do-	2	822	3.		858,59		
intel over door	2	10	2	4#	60.00		
-da-*	1	7	2.	14	27.50		
-do- window,	13	₽¥	2.	1 :	L43. 00		
do- C.L.Window	6	58	-14	2/3	31.50		
do-doora	2	D i	2	2/3	14.00	r se se	
do- window	13	P#	44	5/1£	42.66		
eams of awitch gallery	2	18	4	程.	38,00		
tab on _do-	i i	36)	16+		B25,34	41/7) 32 Say 1
ement rendering						<u></u>	/# 25.j
middle wall? Lin building Long	m11 2	784		Б	945		
db- 0. Well	2	22		6,	254		

DETAIL OF MEASUREMENTS, ETC .- (continued)

Sub-work

(for composite work).

(See Public Works Code, Vol., I, Chapter, X1, paras. 1178 and 1179.)

		Dimen	sions.		Number,		
Serial No. and name of sub- head and details of work.	Number.	Length.	Breadth.	Height or depth.	contents or area.	Total.	Grand Total.
		Brought	forward	# # ± ;			
	l la						
							
	7		Total				**************************************
							*
A CAMPANA A CAMP	Stage Control		er Bessel			100	
						og fallfær Samt skal	
		3	100	e de la companya de l			
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				The state of the s			
	- Ca	rrod dver					

Naini Tal Hydro-Electric Scheme.

MAN NEW No. 68, old 67,

DISTRICT.

ESTIMATE No.__

DETAIL OF MEASUREMENTS AND CALCULATIONS OF QUANTITIES.

(for composite work).

Power House Building continued.

(See Public Works Cod., Vol. I, Chapter, XI, paras 1178 and 1179.)

COLUMN TAXABLE COLUMN		Dime	nsions.		Number,		
Serial No. and name of sub- kead and details of work.	Number:	Length.	Breadth.	Height or aspeh.	contents or area,	Total.	Grand Totm.
		Brough	t forward				
Uement 7. <u>Hendering insid</u> €	wel l						
Main building Long	A STATE OF THE PARTY OF THE PAR	78.₽		6	945		
-do-C.Wall	2	22		6	264	e de la composition della comp	
Switch Sallery long wall							
-do- C.Wall	2	30		5	300		
Side of wing	2	12		5	120		e de la companya de
Projection	2	2	*	6	24		
	1	100	A	24		1903 S	!
8. Paringan coating the same as drain. No. 7.						1993	
Deduct item marked						250	1653 SIL
9. Iron work for tr	isae#,†	he same	: 0.5 he	r bill	1 job	The state of the s	4300/c
10. <u>Lime pointing</u>							
Inside long well	2	783		145	2271		
-doC.Walls	10.2	22		14 ⁵¹ 1412	654		
Gallery Long wall	2	30			1200	enter de la companya	
C.Walls	2	12	e e e e e e e e e e e e e e e e e e e	20:	480		
Sides of opening	2			64	26	e de la companya de l	
Jumps of door with lantel.							
Vindows	23.2	E	2	40	40		
		4	4		10		
able	-2113		2		284		
	1	22	38		160		
etaining Wall	1. 1	1083	34	12 1	405		

DETAIL OF MEASUREMENTS, ETC. - (continued)

Subswork

(ir composite work).

(See Public Works Code, Vol., I, Chap'er, X1, paras. 1198 and 1179.)

		Dimer	sions.		Number,		
Serial No. and name of sub- head and desails of work.	Number.	Length.	Breaddh,	Height or depub.	contents or area.	Total,	Grand Potal.
		Brought	forward				
	de en s						
and the second s							
NAMES OF THE PROPERTY OF THE P							100
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				14			
	Ca	riud over		**************************************			

DISTRICT.

ESTIMATE No.

(E)

DETAIL OF MEASUREMENTS AND CALCULATIONS OF QUANTITIES.

Sub-work. | Power House Building continued. (for composite work). |

(See Public Works Cod., Vol. I, Chapter, XI, paras 1178 and 1179.)

		Dime	nsions.		Number,		
Serial No. and name of sub- head and details of work,	Numberi	Length.	Breadth.	H-ight or	contents or area,	Total.	Grand Totul
		Brough	t forward	•			
uter pointing upto plinth.							
Long walls	2	85}		14	, 250		
Short walls	2	26 <u>}</u>	•	14	80		
allery short walls	2	14		1 }	42		
oto roofing long wa	L1 1	824	•	20=-	1689		
-db-	1	45≵	e **	205	995		
Short walls	2	25		20/57£	2 1062		
ables	2	26	•	5 1	195		
witch gallery long wall	1	34	*	25}	901		
-d o -	1	34	53	Bot	196		
do- short walls	2	14	*	261	733	4	
illar shed	1	8		44	88	gradi. National	
tone paving	1.	255		5	1506	12823	i nu i
educt							
oor	2	8	₩ 11	11	176		
-do-	2.1	5	*	94	ВĞ		
indow	2x13	4		54	672		
.S.Window	2x21	J#		2,3	394	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
educt parapan as it	ear No.8						
paning	2	20		. 64	513	3193°	952
						7.0	
			a de la composición dela composición de la composición dela composición de la composición de la composición dela composición dela composición de la composición de la composición dela composición de la composición dela composición dela composición				
	G	ili ied over					l

DETAIL OF MEASUREMENTS, ETC. - (continued)

Sub-wants

(Sur simupaisto apprile).

(See Public Works Code, Vol. I. Ohip or, E.I., parss. 1178 and 1179.)

A 1955 A 16 GAPET SE	er maari ahannadi kaddakki e Sormo - isa ke 198	Dide n	assembly of Pharmones Assembly has lively and	a de la faction de la companya de l La companya de la co	Number	न्दर (1.2% शर्मा केवल हैं) है है । एक नहीं के अवस्थित केवल हैं।	Na National Appeter Appeter 2 (2) (2)
Served on earlingure of suc- laced and see the or work.	Murater.	Length,	Breadth.	Hight or depth.	coutents or area.	Total.	(Frand Total
		Brought	forward				
		Ē					
			4				•
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		de la companya de la					
			ecque.				
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_DISTRICT.

ESTIMATE No.

DETAIL OF MEASUREMENTS AND CALCULATIONS OF QUANTITIES.

Sub-work. Power House Building continued.

(for composite work).

(See Public Works God., Vol. I, Chapter, XI, paras 1178 and 1179)

		Dime	nsions.		Number,		
Serial No. and name of sub- head and details of work.	Number.	Length.	Breadth.	Height or aspih.	contents or area.	Total.	Grand Totuk
11. Chir wood work.		Brough	t forward	***			
Door frames	1	24	1/3	5/12	3.33		
Window	17	22	4.	1/3	23.83		
O.S.Window	21	12	*	1/3	21.00	48,16	ggų.
12. <u>Chirwood door lea</u> Sliding door leav 13. Chirwood door lea Window & C.Swindo	es wo. Ves.	ad ?uTl				500/	
Window	1.3	4		5#	286 ,		
d.Sdo-	24	33		24	197		
door	<u>1</u>	5		8	42	525	\$ft
14.Stonerpaving	4	250	- 6	ž	750 (it.	
15. <u>22 Br g Iron she</u> e	tika i	cludin	<u>1800</u>	ur of f	ixing.	To a special section of the section	l.
Roof	2	87		164	2914	irt.	
rvof	4	15		16	240_	31.64	1
16.Hidge	1	877		24	249 1	T CA.	
17. Lead sheeting at	<u>protio</u>	of tr	lases.				
Gallery wall	1	36		2	72 (3£t	
Painting & varnish	in.	a		14	952		
door -do- Window	Cad Lag Lag	8 6 24 34		11 81 21 21	352 25 572		
G.E.Window	7127 MC688.	34			1294	1 1405	D. L
20. <u>Earth (11111)</u> Main room	d.	743		1	1758	1.0	
Switch room 21. Saveer srown	1	783 70	12	24	1758 200	<u>.</u> 2623	pre.
Back to main room front room		150		Ğ	1800		
-do- -do- 22.Siteclearance	. 15 200	26	L.S.	· 6	等绩		3/1
n.p.							F

DETAIL OF MEASUREMENTS, ETC. -(continued)

Subswork

(for composite work).

(See Public Works Gods, Vol., I, Chapter, XI, paras, 1173 and 1179.)

		Dimer	sions.		Number,			
erial No. and name of sub- head and desails of work.	Number.	Length.	Breadth.	Height or depth.	contents or area.	Total.	Grand Total.	
		Brough	b forward			3		
			7(1)					

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DETAIL OF WORK.	No.	L.	В.	H.	Quantíties.
1. Excavation.					
Inner side of Power House	1	72	73	5	2700
Outer side "	1	17	74	5	638
en QD en	1	4	7-3	6	180
-do-	1	8	73+12	7	574
en do va	1	24	13	7	2184
-do-	1	10	3	9	270
End round portion	1.	11	3	4	132
Wings	2	2	3	9	108
For end pitching	1	12415	11	1	149
Recorder house founds	1	13	33	4	182
-do-	2	7	3¾	4	196
For chamber	1	53	3-}-	7	<u>135</u> 7448eft.
2. Hill Cutting.					
at the end of tail race	1.	20	20	2}	1000dft.
3. Cement concrete.					
Inner side of power house	1	72	74	1	540.00
Outer -dodo-	1.	17	72	1	127.80
-dododo-	1	4	7-	1	30,00
' -dododo-	1 1	8	123-5-12	4 1	82.00
-dododo-	1	24	13	1	312.00
-dododo-	1	10	13	1	130.00
-dododo-	2	2	3	1	12,00
-do- round portion	1	11	Z	1	33.00
For chamber	1	b _#	34	11	19.25
in floor	1	8	8	1	<u>32.00</u> 1317.
					Say 1318 cft.
		100			
N.P.	1	100			
	-				
88 12: 011 98—1041					

	and the second s			Мв	ASU REM	ENTS.		
	DETAIL OF WORK.	N	0,	L.	В.	Н.		Quantities.
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Naini Tal Hydro-Electric Scheme Contd.

DETAIL OF WORK,	76.7	ME	ASUREMI	ENTS.	
DEFAUL OF WOMA.	No.	L , "	В.	Н.	Quantities.
A. Compact magazine and a 11.7			1		
4. Cement masonry upto G.L.		FF-6 servi		T	
Inner side of power house	2	12	2	3+	1008
Outer of -do-	2	17	2	3.5	238
- do -	2	4	2	51/2	88
mu (d O ma	2	8	2	6	192
-do-	2	24	2	. 6	576
- do-	2	5	2	8	160
-do- wings	2	2+	Day De	8	170
3' top of end wall round	11	11	11/2	3	50
Chamber	1	5	2	5월	57
- do-	2	2	2	5%	<u>46</u> 25150ft.
5. Lime masonry.					
End round portion below 3'	1	11	142	6	132
1}" thick wall both side of ta	,122	39	1	24	263
race.long.	2	39	11+1	.	59
Founds of recorder house	11	13	3	1	46
-do-	11	12)	UNION NO	11	38
⊣do-	1	12	24	1	30
-do-	1	114		2	46
Side walls	2	7	34		49
, –do-	2	7.	3	1	44
-do-	2	7.3	2-}		38
-do-	2	8	2		64
et av gregorisk skriver fra 1991 - Gregorisk av fransk fra 1997 ble gregorisk fra 1998 ble fra 1998 ble fransk		Q	A	- 4 4	Omega 1
Superstructure recorder house.	2		41	-,8	253
Long walls		11	1+	78 12 17 <u>12</u> 17 <u>12</u>	Continue to the second of the property of the second
on U. Walls	2	0	14 *		
leduct. Door	1	3	14	6	2.7
Window .	2	3	4	3)	52 .
Dement masonry wall	11	11		4 🕴	8 2 Napolitic
in Ado-	1	- 11	14	24	<u>. 37. 104</u> , 1142
N.P.				1	
			1		

en e		ME	ASUREME	ENT.	Quantities,
DETAIL OF WORK.	No.	L.	В,	H,	dan mmes.
			19.		
				sod* r	nen,
					*** **********************************
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			adali Digaran ang Karaka		
			Chillingshowy, Lin (p. 17);		
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SI 12: Ou Buildi.	Γ_{i}	l	1 53-39	1	

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DETAIL OF WORK.	No.	L.	В,	Н,	Quanti	ties.
6. R.C. Work including Iron work.						
Inner side of Power House	1	72	4늘	- À	81.00	
-do- outer	1	17	4		19.13	
-do-	1	4	43		4,50	
Notch	1	412	25	4	2,92	
Slab over roofs	1	124	124	4/14	52.08	
Lintel over door	1	43	1-}	Ü	3,38	
-do- window	2	43	$1_{\frac{1}{2}}$	12	6.75	169.76 Soy 170 CH.
7. Boulder Pitching below the fel	11	8	8	4	32	
	1	14	77	1	98	130 Cft.
8. <u>Earth filling.</u> Outer side of Power House.	1	17	71		64	
-do-	1	72	74	1	270	
-do-	1	4	71	1.	15	
Recorder House	1	8	8	.	32	. ael oft.
9. A. Sall wood Planking	3	8.	5	4/12	42.50	
	1	8}	24	4/12	7.08	<u>49.58</u> Cft.
B. Chirwood doors frame						
Doors 3 x 6}	1	18	5/4	4/12	7.50	
Windows 3 x 3}	2	13	4/12	3/12	2.67	_10.17 cft.
19. Cement plasteri						a Tierra de la companya de la compa
Inner side of tails race.	2	72		34	504	
-do-	2	17		34	119	ing a series of the series of
-do-	2	4		54	44	
-do-	2	8		6	96	
edo-	. 2	24	glas	6	288	
⊷đo+	2	Б	11.00	Ġ	80	
≠do+	2	23		8	40	
Tap of and R. Wall	1	-11	11/		60.5	
Chamber	1	ő		D\$	37.5	Talaha Tana
Parpit of wall 15" thick	2	39	pres	14	10862	l stt.
N.P.						
				l lv		
88 12: 01; 68—1991;		y,	h Jana			

	and the second sec		1	Aeasurem:	ents.	Overtities	
	DETAIL OF WORK.	No.	L.	В.	H.	Quantities.	
and Princell Bendances					STATE OF THE PARTY		
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an de production de la compansión de la co La compansión de la compa	en e					*	
		10 Si					
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Alberto Para Grand Calcada. Gallati					Herman Different		
			eranda (S				

Tail Race contd. MEASUREMENT. Quantities. DETAIL OF WORK. No. L. В. H. 11. Lime pointing. 14' thick walls outer & inner2x2 351 39 22 sides. on the plinth 1 34 34 1 -do- All round of building 1 24 184 -do- all -do-11 1 peduct. Doors 1 3 6 18 Windows 34 559 Sft. 12. Lime plaster. Inner side of recorder house. 78 712 1 32 245 Sft. 13. White washing as No. 12 245 Sft. 14. Iron work. Hold fast for door 2"x2"x1 3x2x2 170 Lbs 20.40 -do- Window 1+ "x1+ "x1" 2x2x+ 1.28 Miscellaneous Iron work 20.00 42.96 Say 43 20 L bs L. 3. 15. 13" Chirwood work. Windows 3 31 21 Door 3 6 18 39 16. Site clearance 30/-Joh Rg . 30/-N.P.

		ME	ASUREME	NTS,	Quantities.	
DETAIL OF WORK.	No.	L.	В.	H.	Quantities.	
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					op 1975 Particular and Alexander Francisco	
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	l i	Prof.				

MAN NEW No. 68, old 67,

_DISTRICT.

ESTIMATE No.

DETAIL OF MEASUREMENTS AND CALCULATIONS OF QUANTITIES.

(E)

Sub-work. Revised Estimate of Staff Quarters. (for composite work).

(See Public Works Code, Vol. I, Chapter, XI, pares 1178 and 1179)

		Dime	nsions.		Number,		
Scrial No. and unme of sub- head and details of work.	Number.	Length,	Breadth.	Height or a pih.	contents or area,	Total	Grand Total
Excavation of founds		Brough	t forward				
Long walls	2	757	34	4	1917		
End & cross wall	7	61	3+	4	591		
Verandah long wall	4.	734	2.}	4	737		
-do- End walls	2	4	24	4	. 95	5340	
Excavation of retain	ing wel	1					
	1	85	916 <u>10</u> *	44,424		1318	4658 cft
l <u>Rubble stone masonry</u>	in Tim	a mort	5	2 . +	inth		
Main long walls	2	75 1	51	contain ann an comac us	959		
-do-	2	73‡	23	1	405		
do-	2	7 2 4	24	2	655		
nd & cross walls	7	64	34	2	296		
-do- *	7	7.	1.4	4	135		
-do-, '	7	7월	4	2	, 266		
ront verandeh	1	734	24	2	569		
/d0	1	773-	2	1	146		
-do-	1.	74	_ 1∤	2	218		
arandan ind walls	2	44	31	2	47		Land State
-do-	2:	64	\$	1	71		
-dø-	2	E 2	13	. 2		3819 ((1)
			ul.		3519		
			\mathcal{F}_{i}				

DETAIL OF MEASUREMENTS, ETC. -(continued)

									49	
Sub-work	1	4 -4		 	<u> </u>					
(for composite wirk	a). S									
		47.4				4 479 3	1 11	791		

(See Public Works Code, Vol., I, Chap er, XI, paras. 1178 and 1179.)

entermone en actualment (ring (1880)), par ora proprio anticon en constituir de la companya de l	- по том развите произврзения и от инверсен	Dincen	\$100S.	COMPANY AND A CONTRACTOR OF THE PARTY OF THE	Number,		Grand
Serial No. and name of sup- head and desails of work.	Number.	Length.	Breadth,	H-ight or depth	or area.	Total,	Total.
		Brough	t forward				
							a series
							1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
							100 27 100 100 100 100 100 100 100 100 100 10
					en de la companya de		
			196				
		Carried o	er	AMA	***		

DETAIL OF WORK.	No.	MEA	SUREME	NT.	Quantities,	
DETAIL OF WORK.	NO.	L.	В.	Н.	Wannings,	nd bennement to
(2) Rubble stone masonry in li mortar upto plinth level	me	· . · .	В. Л	A CONTRACTOR CONTRACTO	3519	
Jambs of doors in 17 wall in 1st Storey	5x2	1.2	1.1	64	205	
-do- windows -do-	5x2	14	1.4	3 1	110	
-do-almirah -do-	12x	2 13	14	4	252	1
Backs of -dodo-	12	1,	2	4	96	
Jambs of doors in 18" wall 2nd Storey	s 6x2	14	14	6}	176	\
do- windows -do-	6x2	1-}:	1+	3 <u>}</u>	95	16.3
-do- almirah -do-	12x	2 14	1.1	4	216	
Backs of -dodo-	12	4	2	4	72	
1' top of long wall	2	744	1늘	1	217	
-do- gables	1x2	44	1}	1.	95	
Stairs under plinths	1	171	2	2	70	
Large portion in height	L	7	2	94	130	
-do-	1	9 <u>5</u> 12	14-2.		67	
Retaining wall under 6.L.	1	85	#5 <u>10</u>	41+2	1810	
-do- above of O. Ir.	1	85	1 3 m	1		
-do- above of G. L.	1	85	1124	13%x2	$\frac{10}{12}$ 4740	11498 Gf
Deduct.				****		1.4*3(3) ().4
Stair opening lintel of R.G.	1	54	2	4	8)	
-do-	1	44	2	la	8)	3 . 1 5
Stair opening	1	4	2	64	52	
A-da-	1	3	2	3	18_	114150°1
3. Rubble stone masonry is clay					The content of the second seco	1141201
Superstructure.					and the second s	
Long walls 1st story	2	724	li.	84	21/49.	
Cross wall _do_	17	8	14	81	855	
Long wall 2nd story		72:	la ria	122	2601	
Cross walls -do-	,	134	14	1211	<u>.</u>	a de la companya de l
		l v			<u> </u>	
N.P.						
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DETAIL OF WORK,		í	SASUREM	ENTS.	The state of the s
DETAIL OF WORK,	No.	L.	В.	H.	Quantities.
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DETAIL OF WORK.	No.	L.	В.	н.	Quantities.
3. Rubble stone masonry in clay.		В,	ji e		6725.
Deduction.					
Doors opening	6	34	1.3	6 }	239
-do-	6	33	14	5 }	205
windows -do-	5	5) 1	1.3	33	92
dodo	6	24	14	3 <u>}</u>	79
Almirah -do-	12	272	3.	4	144
Lime masonry the same as Item No. A in Sub-Head No.II				and grant depth of the second	1634
R.C.Lintel Over doors	6	5	14	1	26)
-dodo-	6	5	14	ż	23
· -do- Windows	6	4	14	÷	21 \ \beta \. \beta \.
-dado-	6	4	14	TÎ. An	18
-do- Shelves	12	KCXC4	1		<u>47</u> / <u>2528</u> 4197 u.
4. Rewarie Patent Slates.					
Stairs	11	2	0	1	22
-do-	1.	2	7		<u>14</u> 36 Sft
5. R.C. Work including iron			4		
The same as item No. 6 In Sub- Head No. II Item No. B.C.					13
in sub-head No. 3 -do- B				1	135
Shelves planking	24	2	4	1/8	4.50
Padastals .	15	1	1	4	<u>11.25</u> 163.750ft
6. Chir wood work.					
Doors frames (3½x6½)	12	20		\$ 4/1	
Windows frames(24x34)	12		k	3/1	
Walle plates	4	1.		4/1	
🔨 Main rooms Karries	631	9	4/12	1	54,00
Lower verandah posta	18	64	4	1	31,88
Bressummer over -do-	1	724	ŧ	1.4	18.06
Karries over verandah summer under above posts	35 1	172£	4/13 3/13	3/6	46.67 6.77
Bunner amos above passe					
N.P. se 12. dil se-1986			l		
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MARKETING, (Transport Committee), Inguist, and prefrontance and regressioning that plant components (MET - Amen's through the public Committee) and prefer in the public Committee of Commi	PARTIES IN CONTRACTOR OF THE	i	EASUREM:	ENTS.	
DETAIL OF WORK.	No,	L.	В.	Н.	Quantities.
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Staff Quarters continued. MEASUREMENT. DETAIL OF WORK. No. Quantities. В. L. H. B. Tr. 15 3/8 3/8 14.77 Above posts 3/8 122 751 14,11 Bressumers Ż Lower side Bressumer Above Bressumer 4.00 3.00 8 8 1 3/8 3/12 Rafters front 25 4/12 31.25 15 4/12 3/12 16.67 -do- Back 25 8 1 $75 \pm$ 3/12 4/12 317.89Cft. Ridge 6.30 randah. 7. Chir wood planking 14" thi 6 Main room 8 10 480.00 1 724 505.75 985.75 Bft. Verandah 8. 2" Planking of thir wood for 751 15 1128.75 rront såde. Back 1 754 8 602.00 1730.75 sft. 9. Lime pointing. rront & back sides 2 2476 721 19 2 2211 Side gables wall 134 554 10/1410/14 Staire faces 12 6 20 -do- side 9 1 91 83 1772 -do-1 81 494 Retaining walls 90 2 900 1 3114. 10 Door 12 34 64 273 Windows 12 21 2378 sft. _105 10. Lime plaster. Lower rooms all round 36 6 Q 1944 Upper long wells sides 2x105 6 11 1370 1224 -do- table Sides 6 x 2 x 4534 Sft. 11+12 11. Coaltaring 15/ Job 12. Site clearance 1 766 60% 13. White washing the same as lime playter in sup-head No. 10: 1534 Sft 14. Panelled door leave 14" thick Doors 12|2+ 177.98 Windows 12/2 77.08 265.00utt.

N.P.

8**m 1**2. | Cli B**el-**19**5**1.

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DETAIL OF WORK.	No.	L.	В.	H.	Quantities.	
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		Me	ASUREM	ENTS.	arresse et e e e e e e e e e e e e e e e e
DETAIL OF WORK.	No.	L,	В.	Н.	Quantities.
15. Earth filling.					
Main room	6	94	72	1	428
Above	6	10	8	*	120
Verandah Lower	1	€0\$	6	5/8	262 810 Cft
16. Lime concrete.					
In varandah floor above	?	694	6	3/9	314 Cft
17. Iron sheeting in roof includir					
Front sides	1				1129
Back	1	754			<u>677</u> 1806 sf
18. Ridge	1	75士	2		151 Hft.
19. Iron work.					
Bars of padastals 5/8"	15	24	1.04		79.00
Washer 4" x 2"	15	1/2	5.10		58 . 25
straps {" x 14"	13	7 }	1.28		58,24
Bolts to to the state of the st	13	*	1,668		6.56
Bars of wall plates both side	16x	2x	1,50		45.00
Washers + " x + "	1.5x	ŀ	5.10	ø	38,25
Flat iron 13" x 2"	4 _X	1 3	1.28		5.12
Bolts for rafters	2::	‡" 2	 6x2¥.	669	33.40
Washers }"x}"	25	*	5,10		63.75
Miscellaneous iron work		L.	s.		<u>20.00</u> 347.52
and the second of the second o				e de la companie de l	3481bs4.51
20. Painting & workmanship		1.	5.		100/4
21. Saucers drain	1	150	5	•	559/-
*do-	1	75	3		<u>- 225</u> 87581
22. Hill cutting of R.Works		80		236	3060
+do-, , , -do-	2	20	, i		840 <u>14719</u> 186190
Levelling site ofor M.B.page	20	in analysis a new		All the second	1. <u>THE CITY</u> CONTRACTOR

Defaul of more. No. Massubstants Quantities L. B. H. Quantities The standard of more and the standard of the standa		- management (inter-		Marking Committee Committee	programme and production is	energy consists and the constitution of the co
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	DETAIL OF WORK.	No.	L.	В.	H.	aguar mos.
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DISTRICT.

ESTIMATE No.

DETAIL OF MEASUREMENTS AND CALCULATIONS OF QUANTITIES.

Sub-work. Superintendents quarter. (for composite work).

(See Public Works Code, Vol. I, Chapter, XI, paras 1178 and 1179.)

		Dime	nsions.		Number,		
Serial No. and name of sub- head and details of work.	Number.	Length.	Breadth.	Height or Gepsh	contents or area,	Total.	Grand Total.
		Brough	it forward	a 0 a			
Excavation of founds	•						
Main long wall	2	491	3	4	1188		
-do- end & C.Wall.	4	12}		4	600		
Front & Verandah lon	g 1	45 1	2	4	364		
-do- End & C. Wall	2	9 1	24	4	183		
Bath room long wall	2	112	23	4	222		
Back verandah	4 ide	27	2	4	216		
-do End & C. Wall.	4	68	24	4	265	50380	ļt.
. <u>Stone masonny in 1</u>	ine mol	Jar li	oco pli	MATA .			
Main long wall	2	49}	3	# 2 ₃	742		
-do-	2	49	. 2 _k	44	367		
-do-	2	484	2	14	291		
End & Cross wall	4	12}	3.	23	375		
-do-	4	134	2	13	1162		
-do-	4	13	24	1 14	195		
rront verandeh long wall -do-	1: 1: 2: 4:	45 1 45 1 45 1	2 14 14	2 1 11 14	227 1119 85		
-do-lend well	2	蝠	23	24	1114		
-ch-	2	9:	23	14	62		
+do-	2	F.	14	14	149	1 278	
			1			2780	

DETAIL OF MEASUREMENTS, ETC. -(continued)

Sub-work

(for composite work).

(See Public Works Code, Vol., I, Chapter, X1, paras. 1178 and 1179.)

		Dime	isions.		Number,		
Serial No. and name of sub- head and details of work.	Number.	Length.	Breadth.	Height or depth,	contents or area.	Total.	Grand Total.
		Brough	forward	h • *	A		Port Contract Contrac
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MAN NEW No. 68, OLD 67,

DISTRICT.

ESTIMATE No.

DETAIL OF MEASUREMENTS AND CALCULATIONS OF QUANTITIES.

Sub-work.

Superintendents Quarter continued.

(for composite work).

(See Public Works Code, Vol. I, Chapter, XI, paras 1178 and 1179.)

	And the space of t	Dime	saoisa,		Number		
Scripl No. and name of sub- head and details of work.	Number.	Length.	Breadth.	H-ight or	contență or area,	Potal.	Grand Total
		Brough	t forward	A SA	2768		
Back verandah	1	27	2	23	135		
-do-	1	27	14	1.}	71		
-do-	1	27	14	1,3	51		
Back wallof Bath room	2	114	2}	24	139		
-do-	2	- 11	24	11}	74		
-do-	2	104	14	24	55		•
k eross walls	4	62	2),	24	169		
-do	4	7	24	2.1	95		
-do-	4	7#	27	113			3.657/
		No.					
					14/11/11		
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		i.					
2000 1000 1000							
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DETAIL OF MEASUREMENTS, ETC. - (continued)

Sub-work
(For composite work).

(See Public Works Cods, Vol., I, Chapter, X1, paras. 1178 and 1179.)

		Dime	nsions.		Number,		
Serial Fo. and parne of suc- head and details of work,	Number.	Length.	Breadch.	Height or depth.	contents or area.	Total,	Grand Total.
		Braugh	t forward				to a more than the second seco
일은 기본 기본 보다 보다. 영화가 있는 경험 기사 기가							
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		ed over	4-4	La parado			

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Det	AIL OF WORK.	No.	L.	В.	н.	Quantiti	es,
(2) Rubble	stone masonry in 1	ime.				recession and the control of the con	The state of the s
Up to Pl			B. 8	F.		3657	
Jambs (of doors (4) x 7+)	6	2x1}	14	73	270,	
· dom t	vindows (3 x 4)	62	2x14	1.3	4	108	
	loors (3½ x 7)		∤nominat <u>o</u>		7	53	› A
~ do ~ t	vindows(3 x 4)in 15	"2x2	x 1=	x 1	4	30	
-do- (wall loors (3 x 6)	2	2x14	13	6}	49	
End wal	ls of front varand	ih 2	9‡	1.	6]	150	
1' top	of wall long	2	48	14	1	144	
-do- (lables	4 x	2x7-	4	1	90	
-do- 1	o" front well	2	10}	14	1	26	
-do- Er	d walls.	4	9	14	1	45	
Piller	of chimney	2x2	xia	14	12 1	56	
Chimney	over roof	21	2 4	24	14	266	
-do-	-do-	21	7 .	2		68	
-do-	-do-	1	23	2	2	11	
-do-	707-	1	31	2	4	.	_ 5038
Deduct.							
Onen in	- ; of end wallsof va	or e m	a 'n				
* 7]4	5	14	7	- 44	
-do-	-do- lintela	2	63	14	1	12	
-do-	of chimney	22	2 x :	1	24	<u> 11</u> -	67
3. <u>Cement</u>	masonry.						457I oft
	p of chimney	1.2		22414	. 2	3.28	ort.
4. Clay me	SODYV.			2			and the formers production mandage
	<u>Superstructu</u>		14			e programa	
a real grant and a figure			48		12 	1728	
Gross	walls.	4.	14 4	<u>5+12+</u> 2	13	1197	
	& end walls 15% th	u (internal		1.1	6 }	30 <u>1</u>	
do	-d o -	- 2	8	14	6)	130 3850	
	general de la companya del companya del companya de la companya de			Section 1	Terr Service	e e e e e e e e e e e e e e e e e e e	
	and the second s					L Carrier	una din California (ny fisia)
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		ME	EASUREME	NTS.	
DETAIL OF WORK.	Ņo.	L.	В.	Н.	Quantities.
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					기타이 보고 있는 바람이 되는 것이 되고 있다.
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DETAIL OF WORK.	1,0,	MEASUREMENTS.			erralament und eine de der sig halde einemper den zugeligen belande und eine eine eine der der der der der der
		L.	В. Н.		Quantities.
4. Clay masonry contc.		B.	F.		5356
Deduction.					
Opening of verandah	2	5	14	7	88
-do- doors(44x74)	8	13	4	7-3	405
-do-windows(3x4)	6	3	1	4	108
-do-doors 3½x7	- 2	31	13	7	74
-do- windows 3x4 in 15" wall	2	3	1.3	4	30
-do-door 3x6+	2	3	14	6%	49
Item No. A & B in Sub-Head No. 2					A 520 B 350
Items No. C. in subhead No. 5					<u> 106 1730</u> 162601t.
5. R.C. Work including iron work.					
Lintel overdong (4½x7½)	8	6	1 4	4	54.00 _\
-do- window (3x4)	6	44	14	4	30.38
-do- doors (3}x7)	2	5	14	t	11,28 \ C
-do- windows(3x4) 15" wall	2	4.	12	4	5.63 (
-do- doors (3x64) 15" wall	2	44	14	5/12	4.69
. Padastals	16	1	7.	2	112.70 Oft.
6. Lime plaster inner side.					
Main room long walls	6	14	*	<u> 1</u> 21	1050
-do- Cable wails	6	14	. F. 44 1 14	<u>16+12</u>	} 1197
Pantry and both rooms	2	8	- Salar	LIĞ 📗	184
. î	2	8	i i i i	73	120
	4	8	900 1000 1000 1000 1000	<u> </u>	<u>+ .304</u> 2865 5 1 +. 1
7. Lime pointing.			ale tager	2	
" Front verandah : " " " " " " " " " " " " " " " " " "	1	45}	in the state of th	122	569
Paces of end walls	2	11/4		6	148
* Outer sides -do-'	2	114	, est	雅	173
Inner Tages of opening	4	14	, en	7	3 5
Side Walls	2	585	. .	<u> </u>	3 870
Back side of pantry	2	104	i 🔐	64	137
+d0-	2	9#:		113	<u>. 2131</u> 2145
Y (P)					

≥ नामोत्वाहा कर्यन पर्ण गरे भीत्र प्रश्लीका स्वास्थ्य प्रश्लीका स्वास्थ्य प्रश्लीका स्वास्थ्य प्रश्लीका स्वास्थ	THE NAME OF THE PROPERTY OF TH			MF	ASUREME	NTS.			
	DETAIL OF WO	₹K.	No.	L.	В.	H.	Quantities.		
e da seguina es esperante que aprimeira per per en el esta de del del del del del del del del del	opposite altiment formalists and the second	market and the second s				4			
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t mil som			en l	resident	l del della	 			
	the state of the s						77,000		
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Superintendents quarter contd.

		Me	ASUREME	STS.	On-restaur
DETAIL, OF WORK.	No.	L.	В.	Н.	Quantities.
7. Lime pointing. contd.					2145
Deduct. Openings		2	5	7	140
Windows	6	3		4	72
Doors	2	3		6}	39 2 01
					1874 S.C
3. Chirwood Work					
Doors frames 4% x 7%	8	23	5/12	4/12	24.44
Window -do- 3 x 4	8	13	4/12	3/12	8.66
Doors -do- 33 x 7	2	20	5/12	4/12	5,55
-dodo- 3 x 5%	. 2	18	5/12	4/12	5.00
Wall plates	2	51	4/12	3/12	3.50
Bressumers	2	51	3/8	1	.19.12
Ridge	11	51	6/12	4	15.93
Pasts	16	Gjr	3/8	Property states of	14,62
Rafters	2	18	$21 \times \frac{3}{2}$	Ť	78.75
Ridge	1	51	3/12	4/12	<u>4.25</u> 1840
					Say 185 Oft.
. ?" Planking for roofing	12	51		1.8	1836 Sft.
O. Iron sheeting for roofing including cost of fixing.	2	51	l zyk	18	1836 Sft.
ii. Hidze		51			102 Sft.
2. Panelled and glazed doors &					phi to vision in the philade to the contract of the contract o
Panelled doors				174	67.50
-do- windows	2			7	49.40
1/3 Glazed doors	2			Gh.	39,00
2/3 =do- =do4	an Indian	14+		1.74	
Full-glazed windows	1. 6	3		4	96,00 +27
				1	The second secon
5. Dement concrete filling.					$\frac{1}{12} \left(\frac{1}{12} + \frac{1}{12} \frac{1}{12} + \frac{1}{12} \frac{1}{12} \frac{1}{12} + \frac{1}{12} \frac{1}{12} \frac{1}{12} \frac{1}{12} \right)$
Versudah ILoor	1	469	8	1/6	46.00
ado= Back : 1		27	B	17/5	96.00
Main rooms	Ž	134	138	9/1	32.34.75
Back Foons	12	71	71	1/8	12.06
				a spans	150.9

6.4 data Militare 46 and 6 and	na dimining inggranding d	ME:	ASUREMA	NTS.	n James Professional Control of State Control of Contro
DETAIL OF WORK.	No.	L.	В.	Н.	Quantities.
			The state of the s		
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			de la companya de la	je sa se se se	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1
				e de la completa de la comp	
feri-13 (ilk se-134)					

		Mı	ASUREM	NTS.	
DETAIL OF WORK.	No.	L.	В.	H.	Quantities.
14. Lime concrete filling.		38			
Front verandah	1	46살	8	\$/8	140
-do-Back	1	27	S	3/8	81
Main rooms	3	134	13}	3/8	205
Back rooms	2	74	73	3/8	A2 466 U.S.
15. Earth filling.					
TOUTON ON THE STATE OF THE STAT		461	8	1 1	372
lindi lindi alika 1900 kwa 19 Na manana ani ani ani ani ani ani ani ani an	2	27	8	1	216
Main room	1	13支	13}	1 1	647
Back room	2	72	7 ₂	1 1	1113 1248 ort.
16. Iron work.					
· · · · · · · · · · · · · · · · · · ·	16	k i z	5.10	lbs	40.80
4" H. Bars for wall plat		A STATE OF STATE			24.04
i x i Washers " "	然后来对热热	K B	*我可能的影影		40.90
14 x 4" Straps	16	ж 5 <mark>4</mark> 6	1.28	lbs.	69.12
#" Bolts + Lone	16	x f x	.668	l los	5.34
wiscellaneous iron work					<u>30.00</u> 215.20
					2 Mds. 11 see
17. Site clearance 1 Job		ī.	3.	1-1-1-1	Hs. 50/-
18. Painting & varnishing		***		1-7-5-74	Rs. 60/-
19. Coaltaring		.	\$.	The same of	Rs. 15/-
20. Saucer drain.				- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	and the second property of the second section of the second
Front	11	1	3.	Section 1	246
Back Sides	11	+ 62 40	6		260 4 <u>00</u> 906 Sft.
Druce					
21. White wesning same as 11	io ji	ater		Liebertape.	2865 aft.
	e tra establica				
	1 1	i Singalahan			C. 10 (1997) 18 (1998) 19

		ME	ASUREMI	ENTS.	
DETAIL OF WORK.	No.	L.	В.	H.	Quantities.
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and the second s			+11.41		
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MAN NEW No. 68, OLD 67,

DISTRICT.

ESTIMATE No.

DETAIL OF MEASUREMENTS AND CALCULATIONS OF QUANTITIES.

(E)

Sub-work.

Revised Estimate of Sweepers Aut.

(for composits work).

(See Public Works Cod., Vol. I, Chapter, XI, paras 1178 and 1179.)

		. Dime	nsious.		Number,		Grand	
Serial No. and name of sub- head and details of work,	Number.	Length.	Breadth.	Height or	contents or ares,	Total.	Tobal.	
Excevetion of found		Brough	it forward					
Back long wall	1	14	3	2 2 2	105			
-do- sides	2	101	23	24	141			
Front wall	1	13-}	2.	13	45			
Cross wall	4	_ 8∄	24	24	58			
Pardah wall	2	Б	2.}	14	34			
Founds of retaining wail	1 .	<u>-26</u>	2+81	3	1.07	520	Oft 	
Hill cutting.								
	1	1117	62	5/2	1511			
For Retaining wall	1	25	54.6 1	5	44.9		All and the second	
<u>Rubble stone masonr</u>	k in I	ime mo	And the second of the second o					
Long well	1 1	14	ğ	1	42			
-do-	1 1	13±	24	1 1	34			
-da-	1 2	13	2	14	39			
Side walls		101	22	1 1	56	Sec. 1917	4.	
-do-	2	104	24	11	46			
-do⊢	2	104	1.2	14			Lucionia.	
Front perdeh well	1.4	124	24	1.	30 54			
-do-	1	13	14	13	22			
31de mardah wall .	2	5	24	1 1	29			
-do	2	₽ .	14	1½ 4	Ã.			
G. Well	1	8 	Σ., σ.:		2	1.00		
-do-	1	1 9 1 9 4	2t 12	111	1 2			

DETAIL OF MEASUREMENTS, ETC. - (continued)

	Sub-work	$L \to \mathbb{R}$					
(for	romposite i	wark).	The state of the s	destinations of the second of	***************************************	Personal Property of the Control of	

(See Public Works Code, Vol., I, Chip'er, X1, paras. 1178 and 1179.)

	AND THE RESIDENCE OF THE PARTY	Dimer	Number,				
Serial Fo. and name of sub- heed and certils of work.	Number.	Length.	Breadch.	Height or depth.	or area.	Total.	Grand Total
		Brought	forward			1,1	
							The angular department of the second
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	10 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -					10 Sept.	
	And the second s						

ireksiisee	Hev	ised	estin	lat e o	î sweeners		
٠,					Measurements.	Soprakinge, British weren 1908	melamanti ile tar ini della della cia comi di accomi coli del

•	Demist on Webs		Ma	easuremi	ents.			
	DETAIL OF WORK.	No.	L.	В.	Н.	Quar	tities.	
Tå sociese	Lime masonry upto plinth level		В	J.	serigmanna mari ar sama a a a	4.54		
	Superstructure							
	Back long wall joints of	2	1.	12	3	1.4		
	Door	2.72	14	11	63-	49		
	Almirah	272	1.	11	4	30		
	Back of -do-	2	4	2		1.2		
	1' top of wall back	1	12}	1+	1	19		
	-do- cross wall	1	12}	1.2		16		
	-do- Side gables	2	103	1.	11	26		
	Parapet open yard	2 "	6	13				
•	-do-	2	6	1314	314	15		
	-do- fromt wall	1	123	12		, ē		
	-do-	1	123	1131.		8		
	Retaining Will	1	26	6150	243	374	lozy Cpt	
	Clay mesonry.			e e				
	Superstructure.						•	
	Back long wall	1	12}	1.4	13	244	1 70 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	-do- C. Wall	1	123	14	B}	125		
	Front wall	1	124	11	[5]	66		
	Open yard side wall	2	6	1#	54	83	er e	
	Main room side wall.	2	j.	14	1248	236.,	774	
	<u>Deduction.</u>					Constitution of the section of the s		
		1	34	6	14	38		
4	rado⊨	Ĺ	- 5 ₈	3 1	14	24	•	
		‡	2	3	42	9.		
			2	4	4	12		
	intel ever door		- 5 ₃ 17/2	i L	14: 1	- 3°		
	-co- Arakran Coor-langala	2 52	7/ 4 - 0			5	in programme and the second se	
		A.	le .	4-4	1	p'		

One production of the state of		recovered statement to be successful to the second statement of the second sta	re-mineración es s	Mil	SUREME	NTS	
	DETAIL OF WORK.		Хо.	Ī.	В.	H.	Quantities.
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production of the second	n in the transfer of the state						and the second s
and the second	1987 F. S. Skaller (1987 F. 1987)	yayan galaga Sanggan		es d'accessos	Special.		
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						and the second	
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SWO DUCK	Had to		SUREMEN	TS.	स्पर्धान महत्व में हैं है कार्यक्ष करता हुन हो कि होती है कि है कि उन्होंने के के क्षेत्र की उन्होंने के कि	terne revelops de secondare libratione
DETAIL OF WORK.	No.	L.	В.	н.	Quantitic	
Chir wood work.	2	20	5/12	4/12	5.56	
Door frames	1 idea	Mary Name of the	4/12		1,11	
Windows	ß		5/12		9.45	
Rafters	18	4 x 10 x 1	the transfer of the contract of	,21	1.75	
	2	distribution of the	and the second second	3/12	3,23	
Wall plates		Charles British Alberta	4/12	THE STATE OF THE PARTY OF THE P	1109	22.19 Oft
Hidge						
Planking for roofing	1	26	15		240	
. Ridging		1.5	2		32	
. Ifon sheeting labour of f	izili	1	1.		240	
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		gent .				
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The state of the s				No.		and the second s
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DETAIL OF WORK.	MEASUREMENTS			ASUREM	ENTS,	Commission of the Contraction of
William Or Work.		No.	L.	В.	Н.	Quantities.
	Property and a second s					
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		g Spil				
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	e de la companie de La companie de la co					eren eren eren eren eren eren eren eren
				100 100 100		Property of the Control of the Contr
50's 13 Us sum1931'	Topical super				Jan.	

MAN NEW No. 68, OLD 67.

___DISTRICT.

ESTIMATE No.

DETAIL OF MEASUREMENTS AND CALCULATIONS OF QUANTITIES.

(E)

Sub-work.

Sweepers Hut Continued.

(for composite work).

(See Public Works Cod., Vol. I, Chapter, XI, pares 1178 and 1179)

			Diměi	nsions.		Namber.		
	Serial No. and name of sub- head and details of work,	Number.	Length.	Breadth.	Height or c.p.h.	contents or area,	Tetal	Grand Potus
	Lime pointing.		Brough	t forward	***			
	Plinth all round	1	63	1		ää		
	Back side	1	124		13	162		
	Side gable wall	2	112		13-44	241		
	Side face outer	2	4.		5 <u>8</u>	80		
- 141) - 1513 1514	Outer front face	1	12}		5 3	121		
	Front inher side	1	2 10		72	75		
	Retaining wall	1	26		<u> </u>	141	960	
	110021111112 95011				Andrew Televier	eros, casorony — energy		
	Deduction.							
	Door	Ø	7/2		13/2	68		
	Window	1	2		4	8	76	884821
· ·	<u>Lime plaster.</u>		W					And the second s
	Back side wall	. 1	10		13	130		
	Cross walls	1	10		D#	68	4 	30 Mg
	Side Walls	2	9		4.7_C.E.	191 1474	sit.	
	·							
* 10	Regth filling.		9		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	90		
j.	Main room	1	3 6	10				oft.
•	Under paring of yar	i 1		10		<u> 30</u>	ال ميلا ا	
	Stone oeving.				T T			
	Open yari	1	6	10	1	20		
14								
				•				
				la de				

DETAIL OF MEASUREMENTS, ETC. - (continued)

Sub comb (for compacts work).

(See Public Works Gods, Vol., I, Chapter, X1. paras. 1178 and 1179.)

		Dime	nsions.		Number,		
acid to and name of sub- depolered nearly of work.	Number.	Longth.	Bread h.	Height or depth.	or or area.	Total.	Grand Total.
		Brough	t forward	•••			
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MAN NEW No. 68, old 67.

DISTRICT.

ESTIMATE No.

(E)

DETAIL OF MEASUREMENTS AND CALCULATIONS OF QUANTITIES,

Sub-work.

Sweepers Hut continued.

(for composite work).

(See Public Works God., Vol. I, Chapter, XI, parce 1178 and 1179.)

o in the and a first		Dimer	isions,	Number,			
Serial No. and name of sub- head and details of work.	Number.	Length.	Breadth.	Height or	contents or area.	Total	Tet 1.
		Brough	t forward				
3. Site clearance.	1 Job	L,	S.			50/-	
4. White washing the s	rye sa	lime p	laster	in sub	nesd M	0. 10	
					404		
5. 1}" Panelled door l	eeves.						
Doors	2	31/2		64	46		
Windows	1	2		4	8	. 54	
6. R.C. Work including							
The same as item No				. 4	12	13.13	نيرا
	2x3 x	2 x #	z 1/ 5		1111	لانك و لايك	
7. Iron work.	# 7.10	- 660			5.34		
Bolts of wall plates		5.10			10.20	15.54	lba.
Washers & x \ ." S. Coaltaring		L.	\$.			10/-	
o. ovar a. mg 9. Painting & varnishi	n o	L.	5.			25/-	
net and the second of the se							
	en en el		age of the second				
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DETAIL OF MEASUREMENTS, ETC .- (continued)

Sub-work
(for composite work).

(See Public Works Code, Vol., I, Chapter, X1, paras. 1178 and 1179.)

	TOTAL AT THE SHOP ON AN ALLE A STANDARD STORE AND A STANDARD STAND	Ding	rious.	ngaritasina ng minda 4 000 maga sa manakana ng	Number,	प्रतामका कृति (४,३३१,७५७ - व) कार्यामकः ११ वस्त्रीतिक	makes color for factors and in color for each \$4.000
Serial No. and name of sub- bead and cerails of work.	Number.	Lougth.	Breadth.	Height or depth.	or area.	Total.	Grand Total.
		Brought	forward	A hard and a second			
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	Cin	fred gray	994				

MAN NEW No. 68, OLD 67,

DISTRICT.

ESTIMATE No.

(E)

DETAIL OF MEASUREMENTS AND CALCULATIONS OF QUANTITIES.

Revised estimate of cook nouse in connection with (for composite work).

ck).)

power house Superintendents quarter.

(See Public Works God, Vol. I, Chapter, XI, paras 1178 and 1179.)

		Dime	nsions.		Number,		
Serial No. and name of sub- head and details of work.	Number.	Length.	Breadth.	Height or	or or area;	Total	Grard Total
1. Excavationof found:		Brough	t forward				
Long walls	2	143	3	24	218		
End wells	2	SJ	ő	2+	128		
Found's of chimney	2	84	14	1	<u></u>	352	oft.
2. Rubble stone mason	virl	ime um	ler oli	rith.			
Lorg walls 1st lay	2	14+	3	1	82		
-do- 2nd lay	3r 2	14	24	1	7/0		
`-do- 3rd lay	r 2	10 1	2	1₺	31		
End wall 1st layer	-2	84	3	1	51		* * * * * * * * * * * * * * * * * * *
-do- 2nd layer	2	9	23-	1.1	45		
-do- 3rd Layer	2	94	2	13	57	e e	
Chimney founds	2	34	14	12	17		
Superstructure. Jambs of coors	2	14	14	S.	29)		· ·
-do- windows	2x2x	14	4	3 <u>1</u> 3	30)		
1' top of front &	2	13	134	1	79		
back well -do- side gables	2	104	14	1	_321	A. 130 338	Cit. Cit.
3. Bubble stone masoni			*			100	
Superstructure.	*						
". Back long wall	ur di Salah	13	1.1	111	215		
Front long well		1.2	12-	72	446		
Side end walls	2	žið.	1.4	244	276		
Chimacy .	1	Ċ	ð	4	72	722	
n.F.							

TR.				
17	14	100	-	***************************************

DETAIL OF MEASUREMENTS, ETC. -- (continued)

Sub-work	•		
(for composite work).			

Serial No. and name of sun-			sions,	Number,			
head and details of work.	Number.	Length.	Breadth.	H-ight or dopth.	contents or area	Total.	Grand Total.
		Brough	t Jorward				
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				Mary Lab			
			alore			- A	1000
					in the second se		9.0
			<u>Herris</u>	ara sunt			

DISTRICT.

ESTINATE No.

DETAIL OF MEASUREMENTS AND CALCULATIONS OF QUANTIFIES.

Sub-work.

} Estimate of Cook House in connection with Power

(for composite work).

(See Public Works Code, Vol. I, Chapter, XI, parcs 1178 and 1179.)

		Dimei	naions.		Number,		
Serial No. and name of sub- head and details of work.	Number.	Length.	Breadth.	Height or depth.	contents or area,	Total.	Grand Total
	The state of the s	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	t forward				
. Rubble stone masonry	in cl	ay. B.	r.		711		
eduction.							
Opening under chimne	у 1	5	14	22/7	17		
Front Hooks of -do-	4	24	1	*	4		
Windows opening 21x3	‡ 2	2}	14	3‡	24		
Doors opening 34x64	1	34	14	63	34		
Lintel over door	1	Ð₽	14	\	4		
-do- over windows	2	45	1∄	1	7		
Item No.A on Sub-head No. 2					130 220	491 0£	t.
. R.C. Work including 1	ron.						
Lintel over door 33x6	<u>}</u> 1	5)	13	13	4		
-do- over windows 2+x	3 t '2 *	44	43	j.	7	_ 1105	
.Lime pointing outside		eran er					
Back long wali	4	1.3		104	137	, King	
rront -do-	1	13		7	91		Ŧ
Side end walls	2	. 10		7+101	175	403	
Deduction,		椭		2			
Door 34x64	.1.	31		68	23		
Windows 24x34	. 2	2)		44	21		
Lintel of door	1	64		1	3		
-do- of windows	. 2	43		•	1 2 5	-52	351
	in a K						
4							
N.F.	*						
	Ç	articd over	. 💭	#*			

DETAIL OF MEASUREMENTS, ETC .- (continued)

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Sub-work	™ 3					
10 to .7 - 20 Cr . 10	-					
	1		the said the			
(for composite work).	#					NOW THE OWNER OF THE OWNER
Cor consposite work).	J.					

(See Public Works Code, Vol., I, Chapter, X1, paras. 1178 and 1179.)

Serial No. and name of sub- head and details of wait.	Number.	Length. Brought	Breadth.	Height or depth.	Contents or area.	Total.	Grand Total,
		Brought	forward				
						National Contract of the National Contract of	
				garante de la companya de la company			
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	inganista Maria		***				one and an analysis
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and the state of t							
						180	
	ar ves	ried over		<u> </u>			

ESTIMATE No.

DETAIL OF MEASUREMENTS AND CALCULATIONS OF QUANTIFIES.

(E)

Sub-work.

(for composite work).

Cook House.

(See Public Works Code, Vol. I, Chapter, XI, paras 1178 and 1179.)

		Dime	nsions.		Number,		Grand Total.
Serial No. and name of sub- head and details of work.	Number.	Length,	Breadth.	Height or	contents or area.	Total,	
		Brough	t forward	***			
Lime plaster inside Back wall	1	10		10}	105		
Front wall	1.	10		74	75		
Side walls	2	10		72-10-	180		
Sides of chimne	y 2	3		2	24		
Upper side of -do	1	0		3	18		
Front side of -do-	1	6		4.	24		
Inner side of -do-	1	è		3	24	450	
Deduction.							
Front opening of chimney	1	14		22/7	6		
-do- of Holes	4	1		•	2		
-do- opening of	2	24		5	16		
- windows -do- doors	1	βž		ξŧ	23		
Lintel of door	1	5)		b	8		
-do- of windows	#2	4#		1	<u>.5</u>	<u>35</u> 395 si	
. Chirwood work						(272.2)	
Door frame	. 1	20	b/12	4 /12	2.77	# 1 # 1	
Window frame	. 2	114	4/12	8/12	1.91		
Front rafters	10	14}	5/48,	24	12.58.		
Back rafters	10	24	5/12	28	2,17		
Wall plates	2	43	4/12	ã/12 [*]	2.46	21,69	ert.
N .P.	*10-60						
		urried over	TT:	i			

DETAIL OF MEASUREMENTS, ETC. - (continued)

Sub-work		The second secon	,	in the second		
(for composite work).	CAMPA SER CHAPTERS AND THE PROPERTY OF THE	тер (««) РАРП и испексивания по ««««соновария» (», са наставите реплативна уклативнуван ещинало возгалод	ун түүлтөн мен дүн таматамдан дүн түүл түү түү	and the second of the second	A ST TO STATE THE STATE OF STA	otorbandistrature to the angular service to b

(See Public Works Code, Vol., I, Chapter, XI, paras. 1178 and 1179.)

		Dimer	neious.		Number,		
Serial No. and name of sub- head and desuits of work,	Number.	Langth.	Breadth.	Height or depth.	or area.	Total,	Grand Total.
and the control of th		Brough	broward	P B #	www.magazania.u.s;55,50 anicy (CPRACE) appliced		mileconscionarias publici in a processor supra secu
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in the second se				effet (1997)			
			Long Color Regio	en e			
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PAGE

DETAIL OF MEASUREMENTS, ETC .- (continued)

Bub-work

Cook House Contd.

(for composite work).

(See Public Works Ocds, Vol. I, Chapter, X1, paras. 1178 and 1179.)

* ALEKO		- and the second control of the second contr	Dimer	rions.		Number,	tynis garvid konyrriggi. Tääkkän maanaanaalaa	The second of th
	Sorial No. and name of sub- head and details of work.	Number.	Longth.	Breadth.	Height or depth.	contents or area.	Total.	Grand Total:
and to be a second	And the second s		Brought	forward	***			- 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
8.	Tron Work A							
	Hold fasts of door		12	1.66		19,92		
	-dodo-windows	4x2x13	12 x	1,25		15.00		
	Miscellaneous iron work		1.	S,		<u>30,00</u>	64,92	lbs.
9.	Panelled door & window door	1	3}		64	23		
	Windows	2	24		ij.	100 maria de la companio del companio della compani	δ9Sft.	
10	# Planking for roofing				190			
	Front side	1	16	14}	*	282		
	Back side		16	24	4	40	272 Sf	
11.	B. W. &. Iron sheetin	r for	oofing					
	Front side	36.	16	144		232		
	Back -do-	1	16	24		40	272 sf	allar .
12.	Stone paving in fi	ooring						
	Deduction.	1	10	. 10	ł	БO		
	Masonry for founds of chimney.	2	54	14	Ŧ	O)	44 cr	
/ P \$.	Earth filling in:	Cloor d		aving.				
	-do-	. 1	10	10.20		50		
	Deduction of wall of fire place.	2	3 4	椞	j.	i, Io	44 Cf	
14.		ima all	gater-	ji grika	i de la companya de		agra wa	
	Coaltaring to week			3.	a di alla contra di contra con contra di	44-1	390 BZ	
16.	Site clearaine	‡ Job	u U rrisi over	De	<u>11 (25 a) 38 a) 3 a l</u>		5. L	
Ŋ.Þ			Treat UVEE		***			

ESTIMATE No.

Z DETAIL OF MEASUREMENTS AND CALCULATIONS OF QUANTIFIES.

Sub-work.		. X
for composite work).		ALBERT OF THE PARTY.

(See Public Works Code, Vol. I, Chapter, XI, paras 1178 and 1179.)

		Dime	nsions.		Number,	Total,	Grand Total,
Serial No. and name of sub- head and details of work.	Number.	Length.	Breadth.	Height or	contents or area,		
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	S GOOD SECTION						
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No.101 Tal Hydro- Revised Commence of the Comm			ASUREME	nts.	
DETAIL OF WORK.	No.	I.	В.	Н.	Quantities.
1. Excavation in hard soil	Job				
with Bailing out water.	1	L.	S.		Rs. 500/
2. Cement masonry.	12	11	2	18	792
Long walls	1	5	2	18	108
Deduct. Opening for pipe	11	2	2	1.	108 910114. 6
					3940 1 t.
6. <u>Čement concretè.</u>					
Long sides	2	44	2	1.1	- 66
-do-	1	3			and the second s
			2	1:	<u>9</u> 75 cft.
· Sal wood planking	2	τ Ζ .:	3/12	18	32.25 ort.
		1%		70	
. Iron steps	15	Nos.			15 Noa.
	\ \ \				
. R.J.Slab including iron work	1	11	1	7	39 cft.
. Site clearance.	1	job	Job	1	Rs. 10/-
. Uement pointing	4	21	-	172£	367 Sft.
	after.			-12	our or v.
		i grant g			1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
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		a production	1	711111	g propadou como se la productiva de la productiva della p
and the second					And the second s
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			Property of		
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DETAIL OF WORK. No. L. B. H. Quantities.	**************************************	THE STREET	ME	ASUREMA	NTS	A the state of contrasting and was not to discuss the contrast and the contrasting of the
	DETAIL OF WORK.	No.	L.	В.	Н.	Quantities.
			paration communicates			
	가 되었으면 불문에 되면 보게 하는데 되는데 보통하는데, 이번 보고 그 속에 대한 생산의 가 있는 생산을 되는데 보다고 되었다.					
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MAN, NEW NO. 68, OLD 67

Ravised Testiments of Inles Chamber.

PAGE	 ,		

DETAIL OF MEASUREMENTS, ETC .- (continued)

Sub-work (for composite work).

(See Public Works Code, Vol., I, Chapter, X1, paras. 1178 and 1179.)

		Dimer	sions.		Number,		
Serial No. and name of sub- head and details of work.	Number.	Length.	Breadth.	Height or depth.	contents or area.	Total.	Grand Total.
		Brough	t forward	•			
Axeavation of Inlet Ch	mber i	h Hard	flock &	boulder			
Temaris Road	1.	56	14	145-121	9996		
Hanl Rock under - Do	1	ō¢ i	1.5	OHATO PROPERTY OF THE PROPERTY	2800		
Do Touseus bevine.	1	52	1.5	aperaturate anno a disp	3810		
Do for weshout		8		5H =	144		
For 20" intoka pipes	1.	200	10 ITe	n Tie	32000	18450	of.
		30	5	3	1200	3320 0	cft
P.C. Conscets of Inlet	Chamba	en September					
Long wall towerds Rosd	1	9	6 <u>2</u> 2	and the	57		
Short wall Dr	1.1	94	3	071412	3.5		
Pit towards 18" inlet	1	134	3	2	88		
1) ()a-d.()	1	9	74	37	185		
And towards Ravine	1	Í ÍŽ	44	2	7,9		
Chart wall towards 5.7	1	114	9	<u> Litti</u>	4 05		
444					je .		
,	1	143	4f2		耳 72		
	1.	Ħ	111	<u></u>	Lilian Co		
Tith and the second	F 4				78		
Flour of Washout.		113	9				
		1					

	BS.	STIMACE :	Vo	-1720-33							
DETAIL OF MEA	SUREME	TS AND	CALCULA	ATIONS O	F QUANT	ITIEs.					
Sub-work.	and the second second		orak di orak Mga di orak								
(for composite work).											
(Sen Public	Works Code	, Vol. I, Ch	apter, XI ,	paras 117	8 and 1179	.)					
		Dime	usions.	Number,	t tiek is die geschändigengen ausgebe-	Unidentification of the state o					
Serial No. and name of soh- head and details of work,	Number.	Length,	Breadth.	Height or	contents or area.	Total.	Grand Total				
Brought forward											
			* * * * * * * * * * * * * * * * * * *								

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Malifi 151 Hillan - Meatric Scheme.

Revised Estimete of Tulet Chembersian, New No. 68, our 67

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DETAIL OF MEASUREMENTS, ETC .- (continued)

Sub-work

(for composite work).

(See Public Works Code, Vol. I, Chapter, X.t. paras. 1178 and 1179.)

		Dimen	sions.		Number.		
Serial No. and name of sub- head and details of work.	Number.	Length.	Breadth.	Height or depth.	contents or area.	Total.	Grand Total:
		Brongb	t forward				amaintip
ap.C Concrete of Inlet C	iember	(contin	aed) D.	F.	776		
Wall toward Ravine	1	9	8	0±	25.4		
Docentre.	1	ō	• 77	14	35		
Right Centre Piece	1.	7	6		32		
Nong well towards Ravin	. 1	6]	6	12	58		
Da	1	5	6		105		
Ahove centre stone	1	ģ	ć	15	31		
Centre portion	1	В	9	2	₽ ₽	and the second	
Long well toward road	1 1	1042	8	3	207		
Dodocentre	1	ß	16		II6		
Centre floor	1	12	57		,116		
Upper opening floor	1.	7		X :	29		
Centre floor	1	12		14	5 3		
Above S.V. Chember	1	, 2 , 2, 4	16	1.4	β -1,πe	17.77	
Cement concrete pluges in trenches for pipes N	1 1	ъ.	ţ	138 mean	650		1528(2)
ув. 3,5 а.4.		7	7	4	<u>568</u>		
					1000 1000 1000 1000 1000 1000 1000 100		
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ESTIMATE No.	EST	IMA	TE	No.	
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Sorial No. and name of subhead and details of work. Number. Length. Breadth. Height or depth. Brought forward Brought forward Brought forward	for composite work). \((See Public	Works Cod	, Vol. I, C	hapter, XI	. naras 119	8 am 3 7100		
Head and details of work. Number. Length. Breadth. Height or or area. Brought forward Total.		reacher trainmeith Rudesbyth neutrobachail 1980 beann	AMERICAN AREA TO THE TAXABLE PARTY.	The Constitution of the co	annen er in der er in der er in de er	and the state of t	P. Manny at Expension and Automorphisms (Nation of	Charles and the state of the st
	head and details of work.	Number.	Length.	Breadth.	Height or depth.	contents or	Total,	Grard Total,
			Brough	t forward				
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PAGE

DETAIL OF MEASUREMENTS, &c. - (continued).

Tolet chamber concinced.

Sub-work

(for composite work).

(See Public Works Code, Vol. I, Chapter XI, paras. 1178 and 1179).

Serial No. and name of sub-		Dimer	nions.		Numbers,	55 7 1	Grand	
head and details of work.	Number.	Length.	Breadth.	Height or depth.	or area.	Total	Total.	
Rabble efforte cement ma	3 () 1 1 1 1 4	Brought fo	rward	U > 6		p		
Lower piece towards 0.	1.0. 1	11	5-2	8/12	39			
da ဆိုသူ င	1	15류	54	8/12	55			
do do	1	6	5	1/2	17			
Side layer wards Nels	. 1	12 15\$	5	10/12	65			
L.Well towards Ravine	1	14 ⁸ 12	4 <u>5</u> 12	6 10,	12 68			
do	1	54	See As	Andreas and a second	10			
Above floor level upto	5th lat	CI w						
lst layer.	1	84	64	1	57			
2nd layer.	1	114	63	3 8	280			
3rd do cowards Havine	1	15 July 1946		24	336			
Cross wall.	4	9}	6)	4-}	293			
L.Well towards road.	1	20	6)	43	618			
ab ab	1	4	6)	32	98			
Front partion.	1	94-4	6)	1	172			
Side wirks front above	2	9-24	Oğ.	42	388			
1st layer. Long wall of road side	2	234-15		46	1119			
ravine. C. Wall.	1	94	51	14	82	her Alle		
Trant portion.	1	8 3 -4	84	14	55		1	
Manga.	2	8243	* 64	14	109			
V. Chamber founds towards road.	1	37-33		5}	48			
Do.	1	6 <u>6</u>	<u> </u>		85	3994	ψeψ.	
		Carried o	Vat	**.6				

P. No. 6898—25-1-1908.—G.B.P.N.

 .,	COTTO	O	۲.	1787	

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ESTIMATE No.

DETAIL OF MEASUREMENTS AND CALCULATIONS OF QUANTITIES.

10 12 22 10		
Sub- $work$		
(for composite work).	1179 and 3179)	
(Sea Pouli	Le Works Code, Vol. I, Chapter XI, paras. 1178 and 1179)	

		Dime	nsions.	Numbers,	Total.	Graup Total.	
Berial No. and name of sub- bead and details of work.	Number.	Length.	Breadth.	Height or depth.	or area.	NAME OF STREET, AND STREET,	
	The state of the s	Brough	it forward	. g g t			
19					id.	25	
						*	
				ĺ	-		Harris Barrier

Brini Tal Byoro Electric Beliene

MANUAL FORM NO No.

DETAIL OF MEASUREMENTS, &c. - (continued).

Inlet chamber continued.

sub-noork

(for composite work).

(See Public Works Code, Vol. I, Chapter XI. paras, 1178 and 1179).

Serial No. and name of sub-	agenti saman promingga kalaja si sinikaga kan opis, sasi sasi sasi s	Dime	n-ione,		Numbers, contents	Total	Grand Total.
head and details of work.	Kumber.	Length.	Breadth.	Height or depth.	or area.		1 Cittle
3. R. Stane cement mesony	conted.	.Brought fo	orwar d	# D #		3994	****
B.V. Chamber towards rate road	auton Jan	94	3	12	42		
Back side	1.	#13	3	8	42		
do	1	44	3	56+4-	69		
4. d.c.	1	44	ö	4.8	54		
Wall towards groad.	1	94	3	4	111		
Above concrete.	.	1.55	4	2.3	96		
do cross		3 -10] 24]	7.	74		
Cont ed Offeets long wall	hu.	233. H20	52	3	760		
Short wall		98	52	3	164		
Tont face.	1	23 + 114	5.3	10	3.25		
ord. Offeets long wall.	2	CSJ-420	, 6	3	635		
Jaone well.	1	\$	Б	8	148	4	
Trant face.	1	24 g + 1	Manufacture (Control of Control o	3	250	İ	15674
ith Offsets long wall.	2	11-119	{ x 4}	3	517		
Short wall.	1	" 9½	44	8	121		
ith Offsets long wall	¥ ,	20 1 +1	Tax 3b	3	408		List.
Short wall.	1	94	1 %	\$	100		10 (10 (10 (10 (10 (10 (10 (10 (10 (10 (
cont face.	1	208 411	Ž 36	3	1.69		
ront face of 4th Offsets,	1	22 H1	£ 4	3	217		and the second
						4316	
		Carried o	Yer	ear	4	8310.	

| kanna man ha ^{ng} kannang PPPV-1 Ad-dar pangal sipan ladig pa sakan sakan sakan gunda da sakan sakan saka kali 110 dan man sakan Di | ST | RT | OT |
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PAGE -

ESTIMATE No.

DETAIL OF MEASUREMENTS AND CALCULATIONS OF QUANTITIES.

Sub-work

(for composite work).

(See Public Works Code, Vol. I, Chipter XI, paras. 1178 and 1179)

Berial No. and name of sub-		Dimer	1810115.		Numbers,	Total.	Granp Total.
head and details of work.	Number.	Length.	Breadth.	Height or depth.	or area.	LUUII,	Total.
	·	Brought	forward	* ***			.*
					_		
		Carried o	>ve#				

TALL TRUE MINO STREET SOME

MAN NEW No. 68, MAD 67,

___DISTRICT,

ESTIMATE No.

DETAIL OF MEASUREMENTS AND CALCULATIONS OF QUANTITIES.

Sub-work.

[Inlet chemical continued.]

(for composite work).

(See Public Works Code, Vol. I, Chapter, XI, paras 1178 and 1179.)

		Dimei	osions,		Number,		
Serial No. and name of sub- head and details of work.	Number,	Length.	Breadth.	Height or cepth.	contents or area,	Total,	Grand Totul
instile sime messonly.	in cas	geran er Ty	t forward	1 Halla		8 3 1 0	
And the Control of th							
percipe 21x21			8	33	52		
.c. Lincel.		-3 ₂	*	8	4.3		
pening 3' × 3'	ři.	3	3	32	1217		
.U. Lintel:	4	42	\$	4	1 53 m		
pening of S.V. Unsaber	2	4		1 9 20 50	J. Se.	14.3 3 s	855% 0
lugs in the trenches 5: 30" intoke on 2, 3, & 4	8	4.	5	13	2925		
Platform and bends:	1	28		14	1175		
Do	1	7	6	34"	588		A second
Do la la la la la la la la la la la la la	1	å å	3	6	192		
Pist form for sluice valves on Road side.	1.	25	4	1.5	2540		15.074
						2.0	
			4.1	100 mg/m			
						100	

DETAIL OF MEASUREMENTS, ETC. - (continued)

	Sub-work	7									•	
: "			 	 	 	 		 	 			-
(for e	omposite work).	ال							1.15	*		2

(See Public Works Code, Vol., I, Chip'er, X1, paras. 1178 and 1179.)

		Dimer	rious.	Number,				
Serial Fo. and name of sub- head and decils of work,	Number.	Length,	Breadth.	Height or depth.	contents or area.	Total.	Grand Total,	
		Brought	forward					
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DETAIL OF WORK.	No.	L. B.		Н.	Quantibles,		
3. Masoney in coment morter contd.							
up toniks 5th layer.		В,	77 6	a digita surrugua din Salai di	15674.00 afe		
6th layer longusides.	2	1775	10				
do cross wells.	1.	er compression de la compressi	Common descriptions of the Common of the Com	Therman Francisco	352.08 65.31		
Sides facing wells.	2	4+6Î	the first of the said	S. 18 18 18 18	71.61		
Front face.	2	63.	4 : E		69.22.3		
S.V Chamber long walls.	-	7.	2	6.2	175 . 00		
Side C. Wells.	153 53	5 .		64	166.67		
Fitching Sully masonry near S.V.	À	^ - 5 .	14 tz	2+22	23,5 0		
ohamber. Do round partion.	1	J	3.	æ	7.01		
D	1	0 ;	4 <u>}</u>	A STATE OF THE STA	<u>r4</u> 08 .3 0		
	1	4	7 <u>14</u> 712	##£2	16.61		
Do	1.	W.		H	19,50		
	. Sage a	4	4	13	112.00		
Wings of dutlet.	. 2	4.	51	12	45.00		
ao Cpieses.	*	-4	1		R n25		
Hitching masonry of face of long sides.	1.	- 21	Zik ti.	<u> </u>	84. 50		
do back-portion.	1	- 84.	- 31	- 54	180.80		
- Long wall retaining Rale side -	1	522	4 <u>‡2</u> 4	9£	975.68		
	-1	32 4	14	<u> </u>	214.92—18254.0		
<u> Peuporion.</u>		lasa, sa Sila Ja			الموادية الموادية الموادية الموادية الموادية الموادية الموادية الموادية الموادية الموادية الموادية الموادية ال الموادية		
- sarbh portion	1-	19 þ -	4101				
// Line masonry in R. Wall long.	1	131	ing telebrate in the second	912	<u> </u>		
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DETAIL OF WORK.	.	ME.	ASUREME	NT.	
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5. Jenent paintin anteide.					
Long round wall.	1	34	المناسبة الم	:	408
Pitching.	1.	25	99	elija Vilja	225
Outlet democratics	i.	16	2 to 3		80
do pitching	1	3.7	ð		135
do do round partion.	للَّهُ ا	ક			40
do S.V.Chamber suter side	1		24		480
do sucer side.	1	9季	6		
Retaining well	1	13	9		117
	1	15	5		75
	4	15			30
Inder side of S.V. Chamber.	1	34	92		323
Left side and light side up to	2	38	142		1102 5395 51 vg
6. P.C. Fillst.					
Regard portaion.	1	8	4	12	8
My Diece	1.	5	Shannest page and		0,56
Ъ •	1	25	A XA		4.69
D α	6	38	ikanani dan		42.75 56.00 CL1
7. Cament plaster over fillets.					
Round portion	1.	8	3,/2		12
One piece	1	3	14×3		4
do de la companya de la companya de la companya de la companya de la companya de la companya de la companya de	1	ق م	1475		115
do	8	38	i de la composition della comp		193 173 Sft.
8. R. C. Work.		ar a	.		
Opening of outlet chamber (3'x3' do (2'x2')	i kin	44	桶	į ž	29.25
	1.2	:38	· 6‡	1 15 3 5 5	22.76
ನ - da - (ಚಿಸಚಿ) -	12	勘	42	1	9.65
Inner ring base.	1	18	94		- 171,00
Do verbacel.	1	518	i a	1.	811.18
Main pillar	1	13	111	1.4	546.00
AFarizantel besma.	12	3	1	1.2	36100
ba .	14	3	į	 	1637.78
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· ** *********************************	P BOOK SERVICE SERVICE	MF	EASUREMENTS.			
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eleb over wash out valve of	ember 1	53	ÜÈ	2/12		. de C:
POM WOXIII a						
ar lintel (3x3) opening &" R.E	· is	12	4ģ	. 108x	568 lbs 72.14	
) (2x2); R.B.		1.0	¢3½ 84	x.50	3 1bs 55.11	
o (2x2){* do	1	5	.	X.Sf	8 lbs 23.53	
12 R.J. Klug.						
8" Horizontel bers in long v	6. 2	145	1.04	. lbs	30.16	
		ა. აქ		. 108	7.58	
	1	ũ <u>i</u>		រ ប់ន	3.84	
	1	89	1.04	105	3.84	
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ı, an	\$ \$202	7%	1.0			15.60
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u do é	27;	F F	k ,37	þ		12,41
1 do	2x'	(x4}x.	578			23.56
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Iron Work combineed.			2 4	Assign and San Hopping	
3/8" in circular partial in ilegr	5 See 1	44	. 372		3.38
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3/8% do in floor corner.	4	4x2	. 376		15.03
e"xe"xi" ingte iron.	1	.62	3.19	The	165.88
S"x5"x4" I. Izon.	1	1.0	5.00		106±00
for reofing of velve chamber 3/8". R. Jare.	10	1.6	. 37 .6	7.00	60.16
do 5/8" do	.4x	2 x	.04		
Over wear out valve chember 1"	8	32	1.54		4.59 2239.01 Loss 228 Lass
Chirpand planting for routing of inlet Gramber.	1	20	10	<u>.</u> (1.4	24 VII.
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gal wood silppers.	3762	54	44	47/19	IMB CEC.
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MEASUREMENTS. DETAIL OF WORK. No. Quantities. B. M.

Revised to Clark to of Third blocks, actions to the Perer pipe line.

	A*	Meas	UREMEN	rs.	Quantities.
DETAIL OF WORK.	No.	L.	В.	Н.	Aguaritation.
. excavation in soft & Hard Rock.					
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auli du 7th Ire.	3	64		₩	190
do 8th to 9th Nes.	6	6 1			101
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io 14th Ne.	1	102	73	8/3	409
do 15th has		9		7.40	270
do 16th lit.	1.	8	4:	-	74
do 17th No.	$\begin{vmatrix} 1 \\ i \end{vmatrix}$	8	42	3	108
eo 18th Eo.		8	erg m	1.2	90
do 19th No.	1.	8	6 2	3	108
caso this.	1	8	5	4.	180
dollatid.	1	7	5	33	446 /23
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hill cutting batween both the Falus.	1	877	82	11313	
do a3rd at 1st Lenk of let Ea		92	5 <u>1</u>	3	140
For thrust blook No. 24th in 2nd Nele.	1	12	g	10+5	
do 25th do	1	122	9	, <u>-2</u> †5	
do jeth do	1.	13	10	947	
āo 27th do	1	12	바	215	
do 28m do	1	11	₿	X&+S	
da 29th do	12	11	. 8	750	
do 30,31,32,33,34th in End Male	15	11	9	8	79.60
Exception in diversion of Rela-	1	1280	5	. 4	3200
je si ligart blocke on Weeple Tup so bee of Hill above And Nals.		9	đ	4	3240
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DETAIL OF WORK.	No.	L. B.		Н.	Quantities.	
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do for different thrust blocks oto Rampur Servis mosvesion of road near Rampur Bare	15	250	ð	4 3	35 40 4140	
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xcavation for anchorages.	M. C.	0 34	23	5	7700	
a for making two Duna in hale		رند.	16.5	*5	3300	
o for Retaining walks.	1	10	18	4	400	
De	1	10	8	fit.a	. ≥40	
o on the road from Rampur berei o the Hend of bridge Ross.	1	1000	6	3	13000	
o for Real of Bridgles Road to lake	1	1200	6	6 }	e5800	
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Deta	IL OF WORK.	No.	L.	В.	H,	Quantities,
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DETAIL OF WORK.	No	L.	В.	Н.	Quantities.
2. Cement concrete in foundation of	TAME I TO SEE	ust b	.ocks	Oct o g	
For thrust blocks.			ma emales sugera		
under 12th & 13th No. Thrust clock in 1st Teas.	1	18			433%
do 14th To. do	1.	101	74	1.	
ao 15th No. do	1	9	6	1.	
do 24th Ro. in and male	1	12	×9	4	432
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cb ritisk ob	1.1	11	6	4	1.54
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do for 30,31,32,33,34, in End Pala	5	1-1	j	6	2 9 70.
lor anchorages.	Ex8	j0 5}	22	5	7700 13931 Cft.
3. Rubble stone masonry in line.		Price of Control (n. 1995)			
Through blocks apposite power bouse 1 to 4th.	4	54	32	6	808
do 5th & 3th do.		63	. 38	6.,	
. da 70) do	1.	6¥ .	_ 6 }_	_5 <u>}</u>	139
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	Bxβ	20	. 1½	. Offic	<u> </u>
Recaining vails.	14		4	10	400
i do la compansa de l	1	36		##	.120
- Paurder Back	1		44	10	1710
To <u>r thrust blocks in subgiples</u>	.وعر		-E.C.	<u> 10:</u>	BETV
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<u>to nest Nalety Compound at 20003</u> Diffice.		9451	, Sarcia	11	155 <u>k</u>
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do 11th under ground level	1	52	37	抽當	105	
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do 12th & 13th under G. L.	1	17	11	7	1309	
do 12th above G.L.	1	543	86448 2	<u>1</u> 40	285	
do 13th G. L.	1	5. L.Z.	84 + 8	ie 11	349	
de 14th including G.L.	1	.9. 1 54	5 184	4 7	4:3	
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ao 17th Wo.	1	Z āt šā	是認為權利的公司	: 8	127	
Thrust block No. 18th.	1	LL LL	42 <u>1</u> 3	5	127	
do 19 67a	1	2 <u>41</u> 54	43.133 43.133	. 6	156	
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do . t22nd.	1 4	7 5 454	43.4	, 75	200	
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do 24 th,	1	9 <u>8</u> js _e	<u>32</u> 34	i isi	620	
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i do gyth		gy t êş	laye .		4 61	
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do la Sack			- K		Lagrana de la companya	
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" near Inlet or more in miles."	-14.5) }} 33	5 5 7 2	14	Side Akrasoya	
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DETAIL OF WORK.	No.	L.	В,	H.	Quantities.
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do 5,0,7,8,9, 10th.	6	64	34		2 they that
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1 N ECNEL DUE and two seek com two tests and and and and and			as _i ns	1	711
Different Billars upto Esmpar Sarai.	16	64	54		305
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MEASUREMENT. Quantities. No. DETAIL OF WORK. L. Η. В.

DETAIL OF WORK.	No.				A
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ammasibe samar hodse	4	194		2.	195
for 5,6,7th No.	13	1.4		2.1	159
-do-8,9,10th No.	3	18}		1	56
-do- for 11th No.	1	1.8		4	72
-do- 12th & 13th	2	254		10	470
-do- 14 ch	1	24		1.7	288
-do- 1Dun	1	24		8	192
-do-16th	1	20 .		23	ļ po
-ā•- 17th	1.1	23		1.5	115
-do- 18th & 19th	2	21		5}	231
-d6- 30th	1	22		1 7	154
-do- 21st	1	-21		69	137
_do- 22md & 23rd	2	2 (*) 4 : 4 : 4 : 4 : 10 # [日朝 年 9年 江 南 20	74	. 23
-do- 24th	1	264	4 .	15	403
_do- 25th	1	. 262	İ	16	428
-3o-26th	. 1	27		13	351
-do-27th	. 1	. 26		12	
-do- 28,29th No.	1	24		9#	
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Hevised Estimace of Sakha Tal Man. New No. 68, old 67 7 Sub-Sastion Building.

PAGE-

DETAIL OF MEASUREMENTS, ETC. - (continued)

Sub-work

(for composite work).

(See Public Works Code, Vol., I, Chapter, XI, paras. 1178 and 1179.)

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Serial No. and name of sub- head and details of work,	Number,	Length.	Breadth,	Height or depth,	contents or area,	Total.	Grand Totali
			t forward	***			
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2. Exceptation of fou	nds.						
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2' thick wall	2	3	44	54	395		
Cross walls	4	104	44	44	895		
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well 	*	824	24	2	217		*
- Main long wall	1	19.	4	79	270		
-do- emoss well	5.	8	[34	27	l na i		
					224		
Side wall	2	9}	52	$\left \frac{27}{8}\right $	1.173	2017	2817.014.
-3. Lime concrete of							
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-do- 2' wall	2	8	44	11	72		10 Aug
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DETAIL OF MEASUREMENTS AND CALCULATIONS OF QUANTITIES.

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(See Public Works Cody, Vol. 7, Chapter II, name 2178 and 1172)

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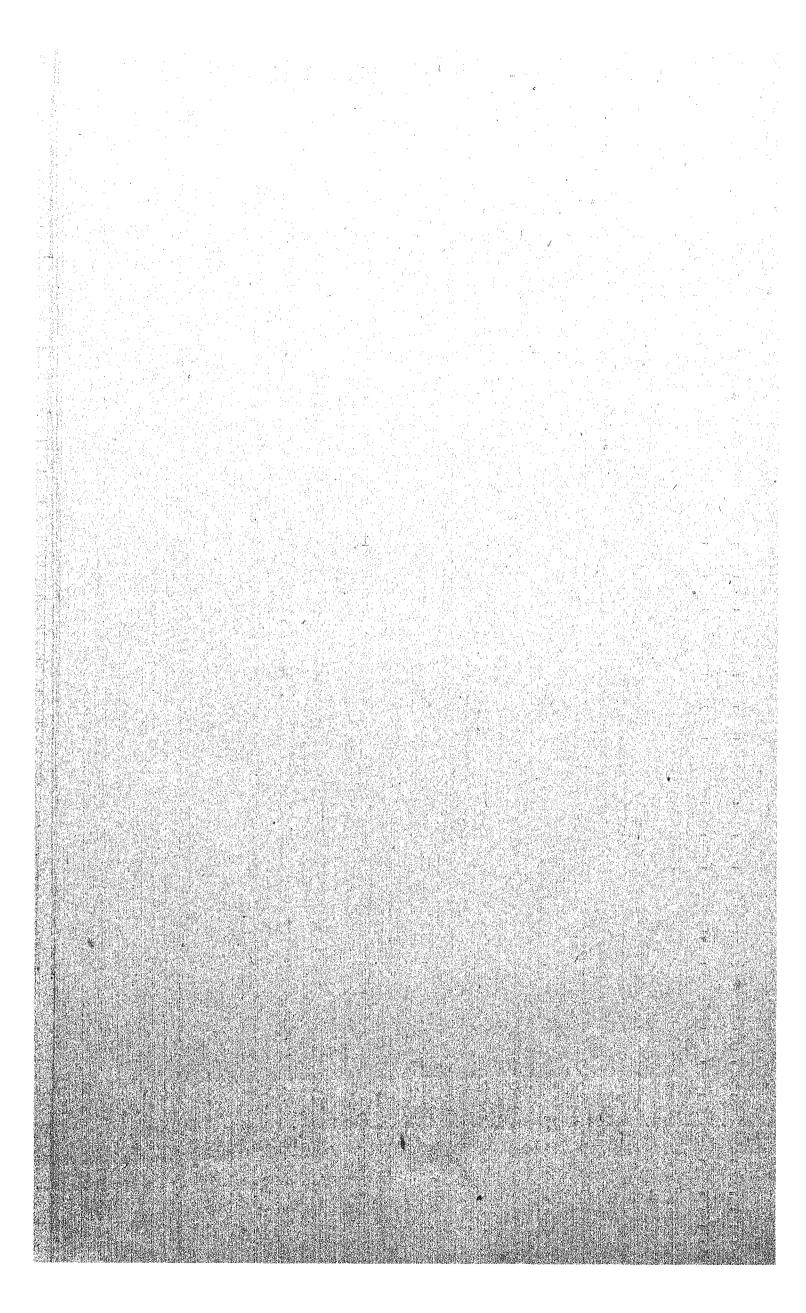
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Sukha Tal Sub-Station continued.

(for composite work).

(See Public Works Code, Vol. I, Chapter, XI, paras 1178 and 1179.)

		Dime	nsions,		Number,		
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Cross Walk	l p	i ii	12	14			
-do-	3.	64	24	4.7			
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	5	94	42:	14			
Back open yard wa		ligh	22	1.34	477		
-00-		103	124		1.75		
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DETAIL OF WORK.	No.	ME	ASUREME	NT,	Quantities.
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Rubble stone mesonry in lime can	Z G a	NEACE SECTION AND ADMINISTRATION	2.7		2840
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Main cross valls	46	المالم	4	212	1040
Side walls.	2.	8	۵	215	593
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do do windows (3x4)	Sn2	15	14	A ₂	30)
do 21 top of main well.	1	112	14	Ê	28
do 1' top of cross wells.	2	114	14	1	28
do top of end walls.	2	112	14	È	14
do & top of side walls of open yard. do 2' top rooms gable wall		104 7	1; 1;	ż	13) 24 6 35)
do parapet of open yard	ន	20₺	14	1.5	magazina majarihan Augusta
Da 🗼	Ed to the same of	201	12	adia adia galikata sepas same paga	381
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Main rooms rendering masonry	1 8	21	1.2	*	38
Towers do do	4	12	1-2	å	36
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Deduct					L
Door (1x4±x7±) widow (3x4) Hamppenings (6'x12')	Y.	\	1½ X 2	7 <u>2</u> 4 12	3\67 96 <u>288</u>
R. C. Lintel over opening (6'x1	41)2	8	2	12	32)
do door (4½×7½)	1	8	14	8	7 A::
do windows (5x4)	4	43	ļè	8/49	24)
do top of main room	2	12	21	4/12	14
do Air ventiletors	8	1	14	4	6
do do "	la	1	6	ż	<u>j</u> 528
					7091 Gft.
Rubble stone masonry in clay.				ļ., , , , , ,	
Showkiders quarters.					10-21 (a) 10-21 (b) 10-21
Wain long wall.	1	1112	14	112	189

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Door openings (31764)	A		14	6/	114	
Windows -do- (3 x 4)	2		14	4	30	
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E.C.Tintels of door (35x64).	14	5	11		10	
-do- windows (3 x 4)	12	4:	14	¥	. - 409 - 3 48	Cf t
* 6. Reinforced sement concrete.						
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Item no.c. in sub head no.5					19,00	
Main roof			174	142	122403	
-do- , pieces.	4	24	27.	ऻर्द	10.51 18 5. 02	
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Air ventilators	16	1				i.
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Waini Tel Hydro-Electric Scheme. Sukha Tel Sub-station Building.

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	DETAIL OF WORK.	No.	I.	В. Н.		Quantities,		
14.	Panelled & Alazed doors &							
	vindows? 1 Panelled & 2 glazed door 3 (4/x/1)	1	4		7	28		
	Glazed windows (3×4) Panelled doors (3×6) of	4	2 🛓		35	35		
	° chowkidara quarters	4	3		6	72		
	-do-windows (3 x 4)	2	23		9:	193.51 b.		
15.	Chir wood work.							
	Door frames (4; x 4;) -dodo- chowkiders shed.	1	23	5	1910)	3.19		
	(5; ₹ 6;)	14	19	E. C.	Erija Bonnes	jo.05		
	Windows frames (3 x 4)	6	15	510 14 14 14 14 14 14 14 14 14 14 14 14 14	‡2 }2	6.50		
	Vall plates & Ridges	3	12	12	12 2	3.00		
	Refters	7x2	12	18	1	7.29		
e Sau	Ridge balten	٥	12	4	ħ	<u>1.12</u> 32.45 Cf		
16.	4" chir wood planking.							
	Chowkidars grs. roofing	2	12	12		288 Sft.		
* */*	Iron sheeting on roof includin Chowkiders room	<u>a. 1.5</u> 2	13者	of_f1 43발		364		
Mariante de la Company	Ridge	1	132	24		34 598 SUt.		
	Painting & Varniabing.	1						
Page Basel Services	dogre	2	4.5		7±	67		
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된 사람들은 화장을 하면 함께 가는 사람이 없는 것이 없다.								
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i e	kan diga pada Pada garang pada pada pada					
mcor revo dala	14' x 12'	20	17.	,	76Lbs	131.60
	A" A. Bara					
	on ados	17	164	1.	94	287.50
	5"do-	17	164	1.0	34	-291.72
	5" -do-	17	7	1.	4	123.78
	54 -4.0-	17	71	1.0	4.	132.60
	8 -do- 6 -do- 2 -do-	3	14	1.0	4	43.68
	111 20-	2	144		68 ·	19.37
	3" -do-	2	14	*.	76	10,53
	j" -do-	14	3		67	7.01
Beam	5" round bara.	3	144	1.0	4	45.24
	- 3″ -do-	2	15		67	5.01
	₹" -do-	2	142	•	76	10.90
	in -do-	14	34	• (68	32.06
Slab over 8' x 8'		1545.17	x1422		68	217.97
			x14克	Maratin Ye	68	<u>277.42</u> 1636.19
	• 5" édo•				68	266.jc
-dodo-	- g* -do-	2x12	x3x	*	168	48.10 1950.59
and the second s						
Lintel bars over	opening 6'x12'	ļ				
		4	. 8	1.		48,00
-do- Door(4 jx7	'è) ភ្នំ។	3	- 6	1.0		- 18.74
Windows (3x4) in E		NOTE BY	4x4/2	1.0	102323044	74.88
-do- (5x4)in 4						12.06
Door $(5\frac{1}{2}x6\frac{1}{8})$ in 1		47)	X2	1.0		62.46
Hold fast of door			Alaman de la companya			20:46
$p_{ij} = p_{ij} + p$	_2"*\{" 	6x2				2017 31.60
-do- windows (ji		la e	χΩ	1.1		46.08
-do- doors (5x4)	12814".	93.4	z1 ‡"	les		<u></u>
. Coalt aring		1.	8.	i Joi	4	30/1 20 Welst

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PAGE -

DETAIL OF MEASUREMENTS, ETC. - (continued)

Sub-work

(for composite work).

Betimate of Katchery Bagn, Sub-Station Building.

(See Public Works Gode, Vol., I, Chapter, X1, paras. 1178 and 1179.)

		Dimen	sions.		Number,		Grand			
Serial No. and name of sub- head and details of work.	Number.	Length,	Breadth.	Height or depth.	contents or area.	Total.	Total.			
	Brought forward									
xeavetion in founds.										
Front Wall	1	50	34	3 2	245					
Cross Wall	2		4	3 1	308					
End -do-	2	13	a.	1.34	364					
Shart -do-	4	8	4	38	448					
Back	1	20	3%	34	245					
Back long well	1	19	2¥	2	104					
Cross walls	1 3	84	2#	2	136					
Compound wall	4	134		1 1	109					
-do- side wall	2	74	2.3	1.3	202	2021	7.			
Rubble stone masonry	<u>in line</u>	•								
apto plinth.										
Front well	2 ا	20	3.5	14	210					
-do-	2.	19,8	. 3	2	254					
-da-	2	19	24	1 %	75					
-do-	2	184	Language Comment	17	; 0.111					
Side walls	, 2	13	4	15	150					
* -40-	2	121		2	17.5					
-46-	2	42	3	il i parti.	12	1139				
Sida wgil	1 2	11	1 25	1.11	36	-				
						1139				
					-					
		Carried av	er:	ree distribution						

ESTIMATE No.

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DETAIL OF	MEASU	REMENTS	AND	CALCULATIONS	OF	QUANTITIES.

Serial No. and name of sub- head and details of work.		Dime		Number,			
	Number.	Length.	Breadth	Height or	contents	Total	Grand Total.
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DISTRICT.

ESTIMATE No.

DETAIL OF MEASUREMENTS AND CALCULATIONS OF QUANTITIES.

Sub-work. | Katchery Bash Sub-Station Building continued.

(See Public Works Cod., Vol. I, Chapter, XI, paras 1178 and 1179.)

		Dime	nsions,	Number,		THE PROPERTY OF THE PROPERTY O	
Serial No. and name of sub- head and details of work.	Number.	Length.	Breadth.	Height or acpih.	contents for area,	Total	Gravd Tobal
		Brough	t forward				
Rubble stone masonry i	n line	unitno	ed incl	uding l	ead 23-3	cha ins	
upto to plinth	8 6 8	* * *			1139		
Cross wall	2	10	4	1 ±	120		
-do-	12	10%	3 1:	2	147		
-do-	2	11	3	1	65		
-0.0-	2	11‡	2:	14	86		
√ - do -	4	6	4	14	144		
- d0-	4	64,	32	2	182		
- do-	4	4	3	1	84		
-do-	4	75	24,	14	113		
Chowkiders		18	2#	2	.9 9		
-do-	1	18	22	1	40	Tr.	
-do-	1.1	18	1#	15	47		
Cross walls:	j . 3	84	24:	2	140		
-do-	3	9	2-}	1	61		
-d.o-, -,	3	92	1.2	14	75		
Compound walls	2	104	24	1:	58		
George -do-	2	104,	11	14	74		
F Front +do-	2	112	24	1	, 52		
-do-	1	11±	12	11	- 60		
						+	
						2757	

DETAIL OF MEASUREMENTS, ETC. - (continued)

Sub-work	1				
(for composite work). §				

(See Public Works Code, Vol., I, Chapter, XI, paras. 1178 and 1179.)

		Dimer	nsions.		Number,		
Serial No. and name of sub- head and details of work.	Number.	Length.	Breadth.	Height or depth.	contents or area.	Total.	Grand Total.
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DISTRICT.

DETAIL OF MEASUREMENTS AND CALCULATIONS OF QUANTITIES.

Sub-work. | Kachery Bach Sub-Station Building Continued.

(See Public Works Cod., Vol. I, Chapter, XI, paras 1178 and 1179.)

(E)

Serial No. and name of sub-					Number,		
head and details of work.	Number.	Length.	Breadth	Height or aspth	contents or area.	Total.	Graid Totsu.
		Brough	t forward	19 F.B.			
bble stoné Masonry i	n lime i	neindin	lesd	Cor 23%	Chains		
to plinth level.		в.	Γ.		2757		
perstructure as per	M. estima	te of S	ukhatal ion Bu	Sub- Iding	4251		
bble stone mason-ry	in clay	includ	ns lead	¶ of 25½	7008 Chains	V	
e same as per R. est	imate of	Sukha	Tal Su	or at lo	548 c	řt.	
inforced cement conc per R. Estimate of	nete ex	huding	iron w	中國医三角學 对对法国的自己的法院	410 3	Paratition	
ment concrete as per	R. Bat:	ingte of	Sukha	hai ilding 5	8 Cft.	Ffn f	
one paving. per R. Estimate of	Sukha T	gl Sub-S	Station		140	#5.	
ime plaster s per R. Estimate Of	Sukha II	al Sub-	tation	29 L	697.	ft.	
ment rendering per R. Estimate of	dukha I	ali Sub-	St at Lan		464	364.	
ime pointing s per R. estimate of					5077	ift.	
iite washing. s per R. estimate of					<i>6</i> 97	aft.	
anelled & glazed doo s per N. estimate of	re & wir Sukkhe J	dows II Sub-	spracion		153	SEL.	
girmood work. s per B. estimale of	Strkha I	ul Supe	\$*:tlor		32.45	c#.	
" chifwood planking a per K. estimate of			iliga.		289 \$	fft.	
ron sheating on accof a par 2. estimate pi		gir tebi	idr of i	dar inc	139B E	it.	
Charles and							

DETAIL OF MEASUREMENTS, ETC .- (pontinued)

	Sub-work	DEFINITE OF MEASUREMENTS, ETC.— (pontinued)	
(for	composite work).		ing diagram (1945) Pagamanan Pagamanan (1945)
4.1		0.33. 10. 1	

(See Public Works Gode, Vol., I, Chapter, X1, paras. 1178 und 1179.)

Serial No. and name of sub- head and details of work.		Dime	nsions.		Number,	Secretary Constitution of Cons	A SERVICE LANGUAGE LANGUAGE
head and details of work.	Number.	Length.	Breadth,	Height or	contents or area.	Total.	Grand Total.
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The state of the s				P. P. Barrier	Supplied Company		
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MAN NEW No. 68, OLD 67,

(E) DISTRICT.

ESTIMATE No.-

DETAIL OF MEASUREMENTS AND CALCULATIONS OF QUANTITIES.

Katchery Bach Sub-Station Building contd. Sub-work. (for composite work).

(See Public Works Cod., Vol. I, Chapter, XI, parts 1178 and 1179.)

	AMERICAN STRUCTURE AND ADDRESS TO THE STRUCTURE OF THE ST	Dimen	. E11015	Activities.	Number,	Total	Grand Total
Serial No. and memo of sub-	Number.	Length.	Breadth.	Haight or a pih	or area,		
		Brough	t forward	***			
. Painting & Vernishing As per R. estimate of	sulinet aL				393 30/-	393 S	12
. coaltaring		I.	-do-		80/		
, Site clearance). Iron of the Station T	he same	as 1 ts	na Mo.	AMB in		ed no. .49 lbs	
J. Iron Company Work. Sukhatal Sub-Station I		A. B.			364	- , l o	
						5.39 los 5 mas.	
19. Saucer drain mesonry	all rour 1	d of 132	3ub-3ta 14	tibn.		1 Est	
20. Retaining wall mason	ry in 117	ne. - 423	. 2	194		27	y oft.
Long dide Sides	, 2	8	211	<u>t</u> 12		42 16	
21. Cement pillers for a	otdire. Je 2	2	1				
-do-	1 4	<u> </u>	- 2	Andrew Control		5 8 \	
Front +405	1	4		170 E 1866	1 1		;
-do- 22. Rawai slate over st			2	2		\$	
-do- 4° thic -do- 1° thic	orina di Primario.		A P	2			, 5 f t
	i i i	Gu r a	ed gver.	• • •	•••		

DETAIL OF MEASUREMENTS, ETC. - (continued)

	Sub-work)		,	- -		
(for a	iomposite work).	}			***************************************		
		The state of the s	1,1		to a contract of the contract	1.0	

(See Public Works Code, Vol., I, Chapter, X1, paras. 1178 and 1179.)

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Serial No. and name of sub- head and demils of work,	Number.	Length.	Breadth,	Height or depth.	contents or area.	Total.	Grand Total,
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MAN NEW NO. 68, OLD 67.

DISTRICT.

ESTIMATE No.

DETAIL OF MEASUREMENTS AND CALCULATIONS OF QUANTITIES.

Salb-work.

Katchery Bagh-Station Building contd.

(for composite work).

(See Public Works Cod., Vol. I. Chapter, XI, paras 1178 and 1179.)

iling.		Dime	nsions.		Number,		
Serial No. and name of sub- head and details of work.	Number.	Length,	Breadth.	Height or	contents or area,	Total	Grand Total
		Brough	t forward				
23. Earth filling in fr	ont of	Sub-3ta	tion &	all rou	nd them		
Front 1st portion		<u>3</u> 0	15	1	450		
-do- 2nd portion	1	18	15	1	270		
-do- 3rd -do-		48	20	1 + 4 - 2 Production of the Constitution of th	1680		
-do- 4th -do-	1	46	5	2 3 2	545		
Right side	1	45	21	2	1890		
Beck	1	50	14	1.14	1050		
Side	1	32	14	22	1120		
Round earth filling	as per	revised	estima Sukha i	de of Jel	351	الرائش المالية	
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		West Control					
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DETAIL OF MEASUREMENTS, ETC .- (continued)

(for composite work).

(See Public Works Code, Vol., I, Chapter, X1, paras. 1178 and 1179.)

		Dimer	sions.	Number.		Grand		
Serial No. and name of suo- head and details of work.	Number.	Length.	Breadth.	Height or depth.	contents or area.	Total.	Total.	
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	entraumingsken keis menste protesse i fjorte verstigen om en er verste mellem kremensken til 1872 – sen i transporter blevårde i till delse til 1972 av i fotosterret i sen i sen i	THE STATE OF THE S	ME	ASUREMI	ENTS.	on men. Na customento, abayates havanta asarates menten menten mininte menten atam tapa tapa tenden menten per
	DETAIL OF WORK.	No.	L.	В.	Н.	Quantities.
1.	HILL CLUB TIME &					
	Black	1	5712	142	8/4	1429
	Back long wall	4	5612	动	Esta Base	283
	i da	4	CS	3		80
	Front long wall	1	504	E.	los	252
*	do en en en en en en en en en en en en en	al.	40	3	1	60
	Cross wells	6 g £ w	G <u>2</u>	A.	2	65
	de de la companya de la companya de la companya de la companya de la companya de la companya de la companya de	1	ુક	3	1	20 2189 Oft.
Z.	Lime the santy upto plinth,					
	Back long well lowest layer & front.	Ě	20	Ĉ.	1	120
	Crass wall	1	ి	3	1	20
	Brok long wall 2=rd layer.	1	55TZ	22	1	142
	Front long wall do	1.	5012	24	1	126
	Crose wells	ĸ	G)	益	1	38
	Back long wall	1	5 6 = 2	*	14	169
4	Front long well	1	4910	2	12	150
	Gruse walls	4	7	1	18	42
	Superstructures					ing a second second second second second second second second second second second second second second second
	Long Back wall.	1	5522	14	8	568
	Pront	1	49 4 12	14	7	518
	Orose wells.	4	7ģ	· 13	847	1692839
	Dealers.					
No.	Door (3x8)	3	3	14	5	الله الله الله الله الله الله الله الله
	Windows (2x2)	3	3	坡	24	23
	Chirwood lintel over windows	4	5	24	4/12	5
	Po Door	8	42	14	4/12	7 114 2041 Ort.
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	MEASUREMENT.				
DETAIL OF WORK.	No.	L.	В.	H.	Quantities.
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				A Characteristics	
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	DETAIL OF WORK. Line pointing. Seck outer side Trons do	No.	L. 53	В.	Н.	Quantities.
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ine s		1	122		8	445.
	Jross delle.		64 9 mm		77	34.5
and the state of t		£np	104		8=7	158
	Inner side back long wall	1	528		74	408
	do Ivent	1	454		74	358
i ya	lross inner side	£.	871	44 3 14.	ne th	113
ľ	Plinth all round	1	128		1	125 1933
	Deduct.	ex3:	3		6	108
na nje nak Najverska	Windows.	Ex31			£g	30 1.58
						30 <u>138</u> 1795 ⊍f∜.
4, 1	LETCA FILLINGS					
1	in floor	1	527	4314	x'/4x	186 UT.
	년" Universed leave battered	3			6	54
	indows.	3			섫	15 69 STt.
6. 0	Intervend work					
Ţ	Duor frames (3x6)	5	-1	5/12	4/12	a.75
٧	lindows do (2x2j)	3	1.2	4/12	3/12	3.00
N	Vall plate 4"x3" Back	1	58 <mark>8</mark>	4/12.	3/12	4.89
	do front	1	5 4	4/12	5/12	4.36
	in Efter	4		5/14	4/12	1.94
F	Raiters	24	112	4/12	B/12	23,50
1	3eck	24		4/12	3/12	8,00
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도 불통해 보고 있는 사용을 하는 것으로 보면 모든 것으로 하는 것이다. 상도 하게 되어 교육하는 것은 사람들이 되었다.							
문의 생물이 됐다. 그렇게 나를 들었다면요?							
등로 보고 있다. 사용 보고 있는 사용 기업을 보고 있는 것이 되었다. 그 것이 되었다. 그 것이 없는 것이 없는 것이 없는 것이 없는 것이 없는 것이 없는 것이 없는 것이 없는 것이 없는 것이 없다. 그런 것이 없는							
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	DETAIL OF WORK.	No.	L.	В.	Н.	Quantities.	
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Z5 a	do end wells.	â	8	2	į,	60	
	Hill outcing.	1	27	10	3 . 184.	24.54	
	Quiting for drain.	1	27	23	10/2	388	
	යිය වියන සම්බසි	100	142 a	2482	9/2	350	
	do for paving.	i	41	**	2		
	Excavation for R. Walls.	4	7	d _a	2	1.1.2	
Α.	For ventilators.	1	21	3	9	5.67	
	Drain	1	37	2	1	74	
		i.	25%	4	1	50 4358 Sft.	
K. w	Lime concrete under formula.						
	Long walls.		282	38	1	130	
	End walls.	12	s	i Ligh		30	
	11001	1	EL	7	L+1/3	83	
	Over arch	1	2	13			
5.	Line masonny under plining						
	Long walls:	6	2.6	23	4	L30 , , , , , , , ,	
	End walls.	2	6	1	1	30	
	Superstructure. Long walls.		le E	14	8 <u>1</u> 2	813	
	Erd walls.			l i	Si	172	
	Steps	14	44		10/1	20	
	do R. Walls.	4	7	2	2	lis	
	Wall on pipe side.	1	8	·	8	40	
	Parupet wall.	1	30	1 2	a	120 1237	
	Deduction			in the second			
	Door (3x5)	1		1 3	1.5	23	
	Wooden lintel		5	16	4/4;	3	
	Surved portion	i a	7.86		1	<u>24 50</u>	
						7.1840	
4	, wrch mesonty.	1	2.5	7.8	1 1	104.5 157 31	
•	S.Chirveod work			T.		pri salah Kemilan Managa	
	Door frame (3x6)	1	16	4/14	3/9.	a 1-35	
00.35 0.35 0.35	Lintel over door	1,	la	14	1 4, 4	1 50 533 Cf	

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DETAIL OF WORK.	No.	L.	В.	н.	Quantities.		
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7. Jenest soiching of schoor		1.0	14		22 9507.		
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Hoo- ores established		and the	aday kad		j <u>26</u> 4325374.		
		10	ethe hat.		82		
g. Lime mainting in Trout	1	white the second			17 55555		
Tequet 1 door	ide.						
10. <u>Iron work</u> Hold feats for doors(21x2")	V 4.10 }	b-2-2	- Fy 1	1.66 1	강물이 하지 때문에 얼마는 이유하는 생각이 걸었는데 없다.		
Hir 65 6"X2\X1"	1	Profession Profession			4.44		
Kuresv 3/8" bers 16" land		100		.36			
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11. Earth (Illins	100	\$7	1.3				
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12. Perselian terd verniculars.		b.	1.		SA / Samuella Sa / Samuella Sa / Samuella		
to the state of th					20/5		
16. Blue ole a - moe 1 Jou			U.	2			
14., Soulderan		L.	3.		5/-		
. 15: Saucer árn	1	57	2		747+		
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			ASUREMI	ents.		
DETAIL OF WORK.	No.	L.	В.	Н.	Quantitie	
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Long wall		(iii	15	24		155		
lud wolls		2	53	24	2	59		
Lnouvetli	in for Moor	1.	114	74	4	hand stade	215 Ct.	
H To the Control of t	DRV 11 Kounda							
. Jone wall	s let layer	2	15		2	135		
Find wells		3	i	2.	2	19		
Above Tal	nds.l 2.d laver.	2	14.1	14	4	38		
lud walls		2	7	14		. 19		
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. Chirvood				*				
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		7	4 3	Lein fran	73/12	7.09		
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DETAIL OF WORK.		No.	L.	в.	H.	Quantities.
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			MEASUREM		ents.	
	DETAIL OF WORK.	No.	L.	В.	н.	Quantities.
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	erant wall	1.	1 1		Si	
	Brok well	11	14		105	149
	Sincs wall	2	10		8 4	
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	Front wall	1	111			72
	Pack will	1	114		105	127
	Sice wolf	1	74		0 12	<u>55</u> 569
	Deduction.					
	1/3 7	2	3		Õ	33333 500000000000000000000000000000000
	Iron work.					
	Hold fasts for doors, 21x	0 10	" 2x:	La 2 (bai.öl	lus 13,28
		4.x		Liz.		4.16
	Kundas 3/8 "k. Bar 16" long			KING GATA	,569 <u> </u>	
	Miscellaneous iron work		L	l s.		<u>.20.20</u>
						57.93
n.	Barta dilling in floor	1	114	73		. 22 58 10s 22 22 32
1.	Paintine and vernishing		L.			Ha. 20/4 🕴
.0.	Coelering		L .	9.		. i.e. 5/-
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3 17 17 W		40.00		and and	es a semante	and the second second second second
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			电影动物型电影场	国中国的国际主义的		THE CONTRACT OF STREET AND STREET AND STREET
	en en en en en en en en en en en en en e				建筑基础	

- And the second	Seedle-Address (2000) Spotter (Transport Period graph graph Chine HAX East Express water 12 January 11 and 12 and			Me	SUREMI	ents.	2
	DETAIL OF WORK.	·	No.	L.	В.	H.	Quantities.
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	DETAIL OF WORK.	No.	L.	В,	н.	Quant	ities.
To Its	arth Excevetion					7 0	
×	Pillers under posts	12	ون ت	Æ.	3	144	
	-do- for chewkiders room	3	2.	2	1.	18	
	for levelling the site	1	28	14	4	2000 2000 2000 2000 2000 2000 2000 200	554 eft.
2, I	ime mesonry for villers of t	ost	J UNG	C G I	ía		
A Company	Pillars	12	2	2	3	144	
	Sides wall	# F	27	1	į	27	
	Holes filling in old R. wall for fixing bressumer		2	2	2 2	Approximation of the second se	195 cft.
3. <u>L</u>	lme poncrete.						
	Above roofing	1	32	1	1	16	
	Under flooring	1	 @29	20		408	422 oft.
4 To	ain masonry.					Understand Control of	
AC 19	Lett 610	1	55	2		1.10	
	Inner & right side		52	51.23	14	***	
	AMANA WALLEY DAME		M Fine			1.60 (1990) (1990) (1990)	279 J.ft.
4 5. C	ilrwood work.						
- GREENHAU	Side posts	8	15	4/12	4/12	13,00	
	Centre poste	4	15		4/12	6,88	
	Bressumar	2	40		6/12		
	Ridge	1	40 16		5/12 3/12	5,55	
	Rafters	16	14		4/12	21.55	90 90 133 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
	Collers					12.35	70,20
	Battens:	1.	39		2/12	The second of the Williams of	1,62
in contra	★do-	3	37 2		2/12		4,69
	-do-	7	35%		2/12		10.43
	Caps and	8	1.		4/12		0.88
	Outer posts of chowkidats shed	∤ ² .	10	4/12 	130.7	e de la companie de l	é, se
g i godine.	Base & top of door	1	24	# /12			, 56
199	Side battens	4	8	1	1/8	Assets the	1.00
	-do-	2	64	14	1/6	We find	C.51
	Long sides battens	3	F	1.	1/8	parameter (0.85
				Ces	dei:d	øver.	92.00
e de la companya de l		1.,					
	12: 011 BB-1981;						

		ME	SASUREMI	ents.	
DETAIL OF WORK.	No.	L.	В.	H.	Quantities.
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Naini Tal Hydro-Electric Scheme Lorry shed continued.

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DETAIL OF WORK.	No.	L.	В.	н.	Quantities.
5. Chirwood work continued. Long short sides	4	79		7.00	0.88
Bressumer outer Eafters Battens	1.	10			1, 11 4, 44 0, 93 100, 31 oft.
6. Iron sheeting for roofing. Front & back roofing For chowkiders shed roof Front face Sides	1	32 112 9	35}	1.0	1144 104 66 147
Inner side Over door		10 3	4		70 12 1542 oft.
7. Ridging 8. Rammed concrete 9. Site clearance	1	35 1 29 Job	1# 28 9	1	54 lft. 406 cft. 10/-
10. Cement pointing As drein mesonry in sub-her 11. 1½ leave of door 12. Coal taxing 13. Fainting & varkishing 14. Iron work	1	6. L. L.	22		279 sft. 15 sft. 15/- 30/- 75/

		ME	ASUREMI	ENTS.	
DETAIL OF WORK.	No.	L.	В.	п.	Quantities.
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		122		100	The second second second second second second second second second second second second second second second s

MAN NEW NO. 68, OLD 67,

Naini Tal DISTRICT.

ESTIMATE No.-

DETAIL OF MEASUREMENTS AND CALCULATIONS OF QUANTIFIES.

for composite work). Pumping Station Building.

(See Public Works Code, Vol. I, Chapter, XI, paras 1178 and 1179.)

		Dime	nsions.		Number,		
Serial No. and name of sub- head and details of work.	Number.	Length,	Breadth.	Height or depth.	contents or area,	Potal,	Grand Total:
D merchanistic by consequent and consequence of the property o	ež.	Brough	it forward	***			
(1) Dismantling of Roofing and wood work	1 Job	I.	8.			Bo /-	
(2) Two Iron Tanks outting	Job	L.	3,			300/	
(3) Hill Cutting	1	621	15点	85	19293		
	1	58	9-1	141	7989		
		70	30	258	53550		
		23x9 x	9.4		983		
-4 Jlips &s. as yer M.B. Fo	. jīj pa	图 1998			29925		102740
(4) Excavation of Retainin		founds.					
Front wall	1	53	10	9	4770		
Side wall towards tank	1	8	10	9	720		
	1	14	8	6	672		
	1	C.	64	4	217		
	1	8월 7일	61	4	195	100	
Side well towards Sp is							
honse	1	21	,10 ½	62	1488		
		/3	" 8 ₂	6#	166		192
		63	-67	68	285	1.1	
	1	74	, 4 ,	6¢	.204		
	1	10‡:	, A	64	269	8986	
				The state of the			
$T_{\mathrm{sup}} \geq T_{\mathrm{sup}}$							
				e			
	Service Community	1	1				
	enior (Jarried 079	r en		Į.	1796	

DETAIL OF MEASUREMENTS, ETC .- (continued)

Sub-work (for composite work).

(See Public Works Code, Vol., I, Chapter, X1, paras. 1178 and 1179.)

		Dimer	isiona,		Number,		
Serial No. and name of sub- head and details of work.	Number.	Length.	Breadille	Height or depth.	contents	Total.	Grand Total.
and manufacturing distributions of the party interesting distributions and the second		Brough	t forward	D ⊕ ■	arr _{ining} ng ang gyanggan tan kata ar ang gunan (en en en en en en en en en en en en en e	
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MAN NEW No. 68, old 67,

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		(E)
TATCITI	17/101	

ESTIMATE No.

DETAIL OF MEASUREMENTS AND CALCULATIONS OF QUANTITIES.

Sub-work.

Pumping Station Continued.

(for composite work).

(See Public Works God., Vol. I, Chapter, XI, pares 1178 and 1179.)

	a a de la company a mangala describação de la company de la company de la company de la company de la company	Dime	ostons.		Number,		
Serial No. and name of sub- head and details of work.	Number.	Length,	Breadth.	Height or as puls.	contents or area,	Total.	Grand Total
Excavation Contd.		Brough	t forward	10 B 1			Commence of the Commence of th
Excevation of main							
Towards of spring house.		36	7:	7	1390		
(etaining wall side C. Wall		13	9	7	819		
-do- Cank	1	36	8	7	2016		
Close to existing wall towards spring house	1	23.1	5#	1. The state of th	<u> 936</u>	<u> 3661</u>	14647
5 Camment conorete of ve	taining	WOLAS					
Wall towards soring	house 1	31	10 🛊	4.	1549		
	•	•	84	44	115		
	1	64	6%	44	197	Qual-	
	, 1	. 35	2	2	140	1005	
In founds of main Build:	100					, en	
Towarda Spring house R.Wall Towards/SpringObjects		36 -	7±6±4		舞	1448	9. (1984) 17.83
	1 1	30 × 36	210311 84-71	β ν\$ 1		632 4 20 x	
Towards Tank. Close to existing wall			Fire 24 2 1	× 5%		1584	
towards apring.	1	2# x	<u> 5a46-5</u>	# 14		201	5866
6) Rubble stone masonyy ;							
Made wall towards pipe champer	1	7 843 (3)	4		ð		
-do-	1	19: 23 <u>1</u> -	1 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	1	(S. 63		
						179	
		i-titl over					

DETAIL OF MEASUREMENTS, ETC. - (continued)

Sub-work		n ₂		1			7		v			
		ζ	 			 	 	 	7 1 ·	etransatura an atrodonarez	Mark or hybriday (mark market)	
(for composite wor	k).	1	Ten de			 F :	 					

(See Public Works Code, Vol., I, Chapter, X1, paras. 1178 and 1179.)

		Dimer	sions.	waganan a sa tangan manakan katan da Manakan a Manakan a sa sa sa sa sa sa sa sa sa sa sa sa s	Number,		
Sorial No. and name of sub- head and details of work,	Number.	Length.	Breadth.	Height or depth.	or area.	Total.	Grand Total.
		Brough	forward	p 3. 4	secular and Proposed States	***************************************	
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	in 271			l.			
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		e e	ijal _{kun} Manener kun	***		20 (1) 20 (2) 20 (3)	in the state of th
		in de la companya de la companya de la companya de la companya de la companya de la companya de la companya de	10 - 20 - 20 - 20 - 20 - 20 - 20 - 20 -				18 mg/m
				af i			
				12. 13.4 1980			
				1 (200) 1000 1000 1000 1000 1000 1000 1000			
		Spiral	18 18 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
	yeu.	ried ever			nes		

Naini Tal Evdo-Electric Scheme

MAN NEW No. 68, OLD 67,

DISTRICT.

ESTIMATE No.

DETAIL OF MEASUREMENTS AND CALCULATIONS OF QUARTITIES.

(for composite work). | purpoint Station Continued.

(See Public Works Code, Vol. I, Chapter, XI, paras 1178 and 1179.)

		Dimer	asions.		Number,		
Serial No and name of sub- hend and details of work.	Number,	Longth.	Breadth.	Height or aspsh,	contents or area.	Total	Grand Total.
Rubble stone masonary		rt Brough	t forward	# N 9		179	
ong wall towards Researed soring house	voir	1.4	4	3	113		
Do	1	1.2	34	1	68		
DO	1	12	4	43	222		•
DO	1	Б	5.	14	26		
DO	1	15	38	1	52		
risting wall towards Spring		2.5	3 ₂	1.	121		
	1	32	424	L. L.	140	9/35	915 011
7)Rubble stone masona; u <u>o to</u>	yin li	ne mor	ing year				
p to ground level Long wall towards	en en en en en en en en en en en en en e						
apring.	1	304	5}	2ª	311		
D0	1	ουdi	3	14	160		
owarde spring , tank	2	28	- 3	14	294		
ross wall all round : retaining wall	i 1	1.7	38	14	89		
d0-towards pipe chambe	r 1	L7	34	1779			
ong wall towards clear water reservoir	1.	354	34	1	124		
Do	1	354	i i	14	150		
boweG,L_long wall	2:		3	3/2	246		
	2 1	27± 255± 171± 174±	3 3 3	3/5 3/6 8/6	256	e di La companya	
Doj.	1	173	2.5	1 3/2	06	1976	
					76.7 0	1000	
		I	<u> </u>	1			
	The part of	arried ove					

DETAIL OF MEASUREMENTS, ETC. -(continued)

9. h			1 1				
Sub-work		the second					
	·			-	All to the district designation to the second state of the second		
(for composite work).)	*	4		1	V	

(See Public Works Code, Vol., I, Chap'er, XI, parus. 1178 and 1179.)

	5	Dimer	asions.		Number,		
for a Far and name of sub- host and details of work,	Number.	Length.	Breadth.	Hoight or depth.	contents	Total.	Grand Total.
		Brough	bjorward	A G B			e mengani membebang matanam tertin
		4					
			1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00				
		in the second se					

MAN NEW No. 68, OLD 67,

DISTRICT.

ESTIMATE No.

(E)

DETAIL OF MEASUREMENTS AND CALCULATIONS OF QUANTITIES.

Sub-work.

Pumping Station Continued.

(for composite work).

(See Public Works Code, Vol. I, Chapter, XI, paras 1178 and 1179.)

August angular dalah halik dalah menanda kemendalah dalah selah dalah selah dalah selah dalah selah dalah selah selah dalah selah se		Dime	nsions,	Number,			
Serial No. and name of sub- head and details of work.	Number.	Length.	Breadth.	Height or depth.	contents or area,	Total	Grand Total.
Rubble stone masonry in 1	THE	Brough	nt forward	400		1976	
Retaining wall		22	8-1	9	1683		
-do-	1	8	63	8	533		
-do-	1	7 78		7	400		
'-do-	1	73	7 = 7	2	112		
Side wall towards apring	1	32	61	2	405		
house.	1	6 <u>11</u>	81 7 31 80 32 50 50	4	1.57		
do- towarødsTank.	1	1118	ιĝ	4	264		
-uo" uo" a p	1	8	84	9	Ø12		
	1	14	7 § 5 2 5 3	6	644		
	1	8		4	189		
•	1	6	\$52	4	140		
Front wall	1	461	42	15	3128		
Side wall towards tank at spring house.	и 2	135	6 8 +2	14	1,653		
do	2		342 -2	31) P		
Side portion towards Ta	rik 1	195	<u> 2</u> 42	9	612		
From face -do-	$\mathbf{L}_{\mathbf{L}}$	19 [‡] 12 5	21	9	158		4
Wing towards tank	1			s. 5	39		
Side portion towards spring house.	1	28	31	9	814		
Front face -do-	1	$ \hat{e}_{2}^{i}\rangle$	73	9	265		
Wing -do-	<u> </u>	1184	16/2	1 5		12072 14086	erio)
		Jarried ore	j u			Hann,	

DETAIL OF MEASUREMENTS, ETC. - (continued)

Sub-work

(for composite work).

(See Public Works Code, Vol., I, Chapter, X1, paran. 1178 and 1179.)

Serial No. and name of sub- head and debails of work.		Dimer	sious.		Number,	water grant management	Grand Total.
	Number.	Longth.	Breadth.	Height or depth.	contents	Total.	
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The second secon	A STATE OF THE STA	en en en en en en en en en en en en en e				V	-
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DEFECTA	T.4 171 4A	7117	OO,	OTAD	0.0

DISTRICT.

ESTIMATE No.

(E)

DETAIL OF MEASUREMENTS AND CALCULATIONS OF QUANTITIES.

Sub-work. Pumping Station Continued.

(for composite work).

(See Public Works Code, Vol. I, Chapter, XI, paras 1178 and 1179.)

	***************************************	Dime	nsions.	1	Number,	Total.	Grand Potes.
Serial No. and name of sub- head and details of work.	Number.	Length.	Breadth.	Height or as pub.	contents or area,		
ubble stone mesonry in 1 Contd	ime	Brough	it forward			14055	
etaining wall Contd. 2nd portion							
Front wall	1	55%	44	4	1004		
do	•	55\$	31	9	1756		
ide portion 2nd. owardd tank & spring hou	30						
vertical	2	43	4	4	174		
≁do *	2	5	3#	9	378		
ide sloping portion	2	134	44,24		225		1
~do≁	2	104	32-r2	44	420		
ling towards tank	1	다 168	esses solds listendact.	6	73		
lings towards spring	1	162	传十2	7	370		
rd Portion.			2				
Front wall	1.	63 1	44	4	1145		
-do	1	65%	. 3ª .	9	2000	August 18	
Side	2	9		5/2	152		
-do+	4,	2314	94	44	165		
Lth portion Front	2 1 2	66 2	5/2	3	501		
Vings	2	2/12	24	124	52		
Pap portion from.	1	114	23-13t 13	17	188 19		
-do- Lyont	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	161 7 18	13 (33-21-)	ii Ar Se	18 383		
<pre>-do* Vinge towards spring</pre>		9 4 44	1.73. u	13.0	102		
		Andrews Control					e e maio
-do- towards tank	11	113	eral.	4 5	122	9222	25277

T)		'n.	Y-1		
7	A.	1 -	24	 	

DETAIL OF MEASUREMENTS, ETC. -(continued)

Sub-work (for composite work).

(See Public Works Gode, Vol., I, Chapter, X1, parus 1178 and 1179.)

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Sorial No. and name of sub- head and desails of work.	Number.	Length.	Breadth.	Height or depth.	or area.	Total.	Grand Total.
	materials of the state of the s	Brought	forward				
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	, and the second second						
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	10 M		nigo a sa				
			State State	a to		in the second	
	(5) (1) (1)	rried over					

DISTRICT.

ESTIMATE No.

DETAIL OF MEASUREMENTS AND CALCULATIONS OF QUANTIFIES.

Sub-work.

Pumping Station Continued.

(for composite work).

(See Public Works Code, Vol. I, Chapter, XI, paras 1178 and 1179.)

		Dimer	nsions.	Number,			
Serial No. and name of sub- head and details of work.	Number.	Length.	Breadth.	Height or depth.	contents or area,	Total	Grand Total,
Control and provide the control of control and and an analysis of the control and an analysis	en en en en en en en en en en en en en e	Brough	t forward	· Contraction of the American States of the	angagaphyaningkonagamahniily daminykondon		
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Plasform mesomry under chlorien olabo.	Section of the later of the	10 x	10 ×	2	200		
SUPPLE BECURE STUDIES							
Drip course		25	*	ن رن	8		
Mesonry chanel	4	50	n in	14	772		
	#	90	4		600		
L Superstand de la company de							
One armitale		6	<i>5,</i> 2	l ba	117		
	lie:	j.	2 /رز	V.	39.		
Jone well	2	39%	**	1//12	2461		
	÷	 ;i	21	1772	2,40		
24' talok vall on -co-	2	111.	٤à	77	+-4		
Cross wall	1	15.	24	2472	1110		
mdO ₩		18	2		888		
2' well over 2} wall	é.	. 151	2	4.	465		
1'a' -dodo-2' wall	2	35\$	12	772	- 781		1.61
Upper woom long wall	1	经完	23	l 1å	. 696		
-0.0 *	1 (1)	2072	- 47	14	713		
*iou**	2	24	27 1 2	1 p	1400	12746	:#9
Decurrion.					12		
Siliaing door (8 x 8)	1	å		. 2	128	1	
Door (5 x 83), ***			24	D.	136	23A (
				<u> </u>			
T =(98), Men=1930),	la de la Colonia	arried over		***	Lijere,		

DETAIL OF MEASUREMENTS, ETC. -(continued)

Sub-work

(for composite work),

(See Public Warles Code, Vol., I, Chapter, X1, paras. 1178 and 1179.)

Serial No. and name of sub- head and details of work,	di.	Dimer	isions.	Numbec,		- to the same of t	
	Number,	Length.	Breadth.	Height or depth.	contents	Tabal.	Grand Noval.
TO A CONTROL OF THE PROPERTY O		Brough	t forward	S g 4	Sauki jihulu u 1975 ngagay ngakan ngagi kilo si neman Cung	an in the second was a second sum of the second second second second second second second second second second	To employed the sound of the so
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Waini Tal Hydro-Electric Scheme.

MAN NEW No. 68, OLD 67,

DISTRICT.

ESTIMATE No.

(E)

DETAIL OF MEASUREMENTS AND CALCULATIONS OF QUANTIFIES.

Sarb-work.

Pumping Station Continued.

(for composite work).

(See Public Works Cods, Vol. I, Chapter, XI, paras 1178 and 1179.)

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Serial No. and name of sub- head and details of work.	Number.	Length.	Breadth.	Height or depth.	centents or area,		Grand Totel.
Rubble stone masonary cont	C cy	Brough	t forward	# D II		and the second s	And the second s
Deduct lon.		В. Б	orward.		234		
Windows (4 x 51) in 2g'wal	1. 3	4	2 2	58	165		
-dodo- 2' wal		4	2	5\$	352		
Ventilatore in 2計 wall (3計 x 2前)		24	21	34	23		
-do- in 2' wall -do-		28	2	3%	56		
-dododo-	2	5≹	2	28	37		
-4-do- 18" wall -do- :	8	3#	1:	24	112		
Window of above	4	4	14	54	132		
R.C.Work. Lintel over sliding door		11.	2	1:	35		
-do- under -do-	1	11	28	*	1 7		
Over opening in plinth level in 2성 wall	1	7	24		9		
-do- 2' wall	1	214	2	*	22		
-do- over holes in wall	1	3	24	*	4		1
-dodo-		1	2.6	1		190	
-do- in 2' wall	1	2			2		
-do∺	1	3	2		3	1192	
					e de la companya de l		
				0.00			
	<u> 1946</u>		1				
	1	Jarried ove	i , , , ,	longs (a	4		

DETAIL OF MEASUREMENTS, ETC. -(continued)

Sub-work		
	Lines to be the first of the contract of the c	e na ang ing ang ang ang ang ang ang ang ang ang a
(for composite work).		

(See Public Works Gode, Vob., I, Chapter, X.1, paras, 1178 and 1179.)

		Dimen	isions.	Number,	and the second second		
Serial No. and name of sub- head and defails of work.	Number.	Lougth.	Breadth.	Reight or depth.	ontents or area.	Testal.	Orand Potal.
T ACCIDENCE ACTIVITIES AND THE PROJECT COME THE PROSPECT OF THE SECRETARY 12 are a properties of the THE SECRETARY AND ACTIVITIES AND ACTIVIT	The second secon	Carrier Recognisement and the Wilder School of the Carrier Communication o	nadaman karang dan attalian makanggan pelikanah karana	Second State of the Second	toruses according to a hilling or - 30 % to the commercial	ka ayada bilga birda kalenda k	argo une maneral anguer malagaga Paga (S
		Bronght	forward	र्के अ ंद		CO a acoustic delication.	
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DISTRICT.

ESTIMATE No.

DETAIL OF MEASUREMENTS AND CALCULATIONS OF QUANTITIES.

Sub-work. Pumping Station Continued.

(See Public Works Code, Vol. I, Chapter, XI, paras 1178 and 1179.)

	a ¹⁴ 13 to 410 contains a congrision process stray	Dime	nsions.	parangs and adjusted a narrow specific principal and another specific principal another specific principal and another specific principal and another specific principal and another specific principal another specific	Number,		
Serial No. and name of sub- head and details of work.	Number.	Length.	Breadth.	Height or depth.	contents or area,	Total,	Grand Total
abble stone masonry in I	1773 (%)	Brough	t forward	* # #	and a second second second second second second second second second second second second second second second		36023
Deduction		Brou	ht For	ward.	1192		
.C.Lintel over door	1	7	24	15	23 \		
indow in 25 wall	3	8 ½	24	14	52		
-do- 2' wall	8	54	2	11/2	95		
rane comnice in 2' wall	2	33 h	2	1	134		
-do- 2j' wall	2	152	24	1	78		
¿C.lintel over ventilate) B	
7 2 wall (3 x 2 b)	1	3#	2%	7/12	6		**************************************
-do- in 2nd wall	3	3#	24	7/12	16		
-do- in 1%' wall	8	31	23	7/12	44		40.40
-do- opening in wall	1	14	28	*	2		
-do-	2	1 8	2	4	3		
intel of above story windows	-4	51	11	72	16	1661	3436
. R.C.work including ir	<u>X</u>		*				
lab over double story		29	244	4/12	237		
". tower	1	25%	21	*	268		
" lerge slab	1	364	231	4/12	Medical in		
Ligtel over sliding door	1	11	2	18			
" under door	10	111	24	1			
Hab over opening	1.1	7.7	24	å	9	840	
Car.							

DETAIL OF MEASUREMENTS, ETC. -(continued)

Sub-work	6 1 a					
(for composite work).	profess no estropologica. A	interpretation and the second section of the second	SCU MERCHELFRENCE SAME SOME ENGLA	manole Kindip M Pengangangangan	1900 (SANSKER AND ANDREAS (SANSKER) SANSKER	 erinamaningan) minaman

(See Public Works Code, Vol., I, Chapter, X1, paras, 1178 and 1179.)

		Dimer	wions.		Number,		encompanya pagangan pagangan pagangan pagangan pagangan pagangan pagangan pagangan pagangan pagangan pagangan
Serial So. and name of sub- head and dotails of work.	Number.	Length.	Breadh,	Meight or depth.	contents	Total.	Grand Total.
The second of th	A 4 th row to proper proper product of the community of 4444.	Brough	forward	W ig. 1	ақсынынған бұқыйқ құуға айқанда қарада жа	Because 1979 B. 196 B. 196 B as BHOS Served weeks the ages 1	g various en establishes part propriesemble (1988) (1987)
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DISTRICT.

ESTIMATE No.

DETAIL OF MEASUREMENTS AND CALCULATIONS OF QUANTITIES.

Sub-work.

Pumping Station Continued.

(for composite work).

(See Public Works Cods, Vol. I, Chapter, XI, paras 1178-and 1179.)

Extrapor como como como se en Exemenciado de en regimenta da de EFF com prima de adesta la medio algan de esta en producto de sente en 200 en 100 en	are the state of t	Dime	nsions.	i goʻgʻi yazida. Qilyopon jaqiz (Boqa varandara da Ligazati e bagʻ	Number,	(1926-1921) (1921-1921) (1921-1921) (1921-1921) (1921-1921) (1921-1921) (1921-1921) (1921-1921) (1921-1921) (1	August and the control of the contro
Serial No. and name of sub- head and details of work.	Number.	Length.	Breadth.	Height or	contents or area,	Total.	Grand Total
R.C. Work including iron w	ork	Brough	t forward	A villusicitisma zamo, il signi ma sumplementalipres	840		The state of the s
The day of the property of the property of the property of the second of the property of the second of the property of the second of the property of the second of the property of the second of the s							
Slab over opening in 2' wall	- Paragraphic Control of the Control	21}	2	*	52		
" over slab	1	3	54	\$	4		
-do-		1	24				
-do- slab in 2' wall		2	2	•	2		
-do-		3	2	4	3		
R.C.lintel over floors	1	7	24	11/3	23		
-do- windors 2%' wall	3	54	24	24	51		
R.C.lintel over windows in 2' wall	6	54	2	172	95		
-do- crane cornice	2	332	24	1	167		
+do+	5	15%	24	1	77		
lintel over ventilator	1	37	2 के	7/12	6		
-do ~	3	34	21/2	7/12	16		
-do-	8	34	2 fz	7/12	44		
-do- opening		112	2-8	1 *	. 3		
Pad stons	9	2	1	372	27		
-do- or girders	1	19	33/4	22/12	48		132 122 123 124 125 125 126 126 126 126 126 126 126 126 126 126
Lintel over windows in	4	53	14	*	1.6		1447
				100-110 100-110			
en en en en en en en en en en en en en e							100 AUG 187
	-	4 8 8	E Problems of the Control				
on The Control of the	ul	Arried ove			1	1	

DETAIL OF MEASUREMENTS, ETC. -(continued)

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AJ CC	b-wor	w

(for composite work).

(See Public Works Gode, Vol., I, Chapter, XI, paras. 1178 and 1179.)

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Serial No. and name of sub- head and details of work,	Number.	Length.	Breadth.	Reight or depth,	contents	Potul.	Grand West.
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Naini Tal Hydro-Electric Scheme.

RAP NEW Mo. 68, orn 67,

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PETITIALIS No.

DETAIL OF MEASUREMENTS AND CALCULATIONS OF QUANTITIES.

Sub-work | Pumping Station Continued.

(for composite work).

(Bas Public Works Soile, Vol. I. Theplay, XX, paras 1478 and 1179.)

	amen complete special consequences	Mine	DAG DILA	g Co. h. Spic halfors pays (40 cd NG gggcamsys melyssys)	i Number,	
derini Mo, wad name of mul- bed and depute of work,	Missellor.	Langth.	More consists.	Helght or depoh	CHENCUS (A	Total Total
	and the second s	[44, 581]	ih forward	Att A		
2. Cement concrete Fille		r O	18	1/8	130	
Floor	***************************************	58	17 +14	// 0		
Cement fillet on round wall lower portions.	1	774			113	
-do- width -do-	1	694	1+2×1+		98	
-do- upper portion	1	65	1341		61	
-do- for other		50	9		450	
Under pump & motors						
under low zone pump	2	94	27 272 242	3	143	
-do- Inter zone -do-	2	10}	2/12	5	163	
-do- Figh -do-	2 .	84	74	-3	352	1537 Oft.
10.Lime concrete in flooring.						
-do-		5 8	18	3/8	392	392 dft.
11. Lime pointing in & o	ut side					
Long wall	Ż	58	•	194	223 3	
Short Walls	2	13	1995	19#	1693	that a second second
Transformer room long	2	24	•	20	960	11
wall. -do- short wells.	2	19		.20	760	10
outer side up to plinth	1	172	學	3/2	258	
o Up to roof lower story	1	77	**	25#	1985	
	1	98	#	234	2209	
	1	-98	Vie nce of the second	16à	1613	9275
	100					
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	and the second second	ngga sabi sa nasa di Sanda sabiga	Last applicable are no			

DETAIL OF MEASUREMENTS, ETC. -(confirmed)

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(for composite work).	ď	AMPROXIMATION OF THE PROPERTY	kirkensetter til en millen prinsen med måddånne til er etteret i kirkense til konstruktion konstruktioner og et	is des friid hat velegts est for skall de die Sichen, greprei sestemen waar hit periodoste val sterpfewijve sabidenteid bet	·····································
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		Dimer	usions.	Number,			
Serial No. and name of sin- head and details of worse	Namber.	Say A The daths and a		соцвоивы	Tokal.	(Franci Nobal.	
		Brough	d forward	un hayanetistagasingga Kondergea mang pinchingsinados. M. A. H	منا معمورات المؤكد والمعادلة المعادلة المعادلة المعادلة المعادلة المعادلة المعادلة المعادلة المعادلة المعادلة	ikan sista sinikkan sihanki ninankinanga sana ngoso. p 	of the second planes and and the second confidences.
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	L Ti ref	ed ove		***			

__DISTRICT.

ESTIMATE No.

DETAIL OF MEASUREMENTS AND CALCULATIONS OF QUANTIFIES.

(E)

Sub-work.

Pumping Station Continued.

(for composite work).

(See Public Works Code, Vol. I, Chapter, XI, paras 1178 and 1179.)

prost.		Dime	usiaps.	maayiing o dollarana in hay in comanda	Number,	akabung Madrant nyangan sarang lab di sana mahili C	and the graph and the state of
Serial No. and name of sub- head and details of work.	Number,	Length.	Breadth.	Height or depth.	contents or area.	Total,	Grand Total
11. Lime painting in & out side.		Brough	t forward	# 5 0		9275	
Deduction.							
Doors.	2 x 1	8	work	11	176		
-do-	2 x 2	5	\$205	8.5	.170		
Windows	2 x 15	4	48 4 0	54	630		
o .S.Windows	2 x 14	21/5		34	262	1238	8037
Retaining wall.							
Front portion No. 1.	•	47	****** ******************************	16	752		
-do- No. 2.		56		10	560		
-do- No. 3.	1	64	***	10	640		
-do- No. 4.		67		34	/234		
Top portion	1	30		8	240		
Flat over Kharanja of to		68	**	12	816		100
1st. portion							
Side wall towards tank spring house.	2	15	***	16	480		
-do- side portion	2	26	**	10	520		141
2nd. portion. Sides	. 2	6		4	48	100 100 100 100 100 100 100 100 100 100	
💘 Ldo- long sides	2	6	yea.	9	108		9.3
-do-	2	14	, 94	44	126		
Wings towards spring		.17	Her	7	119	4653	
Wore, Man-1980;	6	azzied oye	The state of the s	The second secon			

DETAIL OF MEASUREMENTS, ETC. - (continued)

Sub-work	1				•		nor a k shadhire vica	. Oktober 1995	
(for composite work).	S	_{Res} , Mellitaka (2) et er 11 e e eraeman	intercent de antercentre en	e Contragning Calendary September September 1997	gyption companies money come companies and comband if a print indicated in	grande y en e mane dereg mer klasseler appears a någen, skildly för at firt fill flatt till			

(See Public Works Code, Vol., I. Chapter, XI) paras. 1178 and 1179.)

			Dimen	sions.		Number,		
	Serial No. and name of sub- head and dotails of work.	Number.	Longth.	Fernantil.	Height or depth.	contents	*ชั*ะ>ไนสม] ,	(Trittel Pionals
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Naini Tal Hydro-Electric Schemelan New No. 68, old 67.

DISTRICT.

ESTIMATE No.

DETAIL OF MEASUREMENTS AND CALCULATIONS OF QUANTITIES.

Sub-work.

(for composite work).

Pumping Station Continued.

(See Public Works Code, Vol. I, Chapter, XI, paras 1178 and 1179.)

		Dime	nsions.		Number,		
Serial No. and name of sub- head and details of work.	Number.	Length.	Breadth.	Height or depth.	contents or area,	Total,	Grand Total
1. Lime pointing Continue	e Co	Brough	t forward	强 自 由	4653		
Retaining wall. rd. Portion sides	2	9	g A. ' 8	4-4	81		
th Portion wing	2	4	ecuals	2 %	50		
op portion wing towards	1	5 के	•	83	47		
do- towards tank	1	112	***	5	57		
do- Top Kharanja & 6.		68		12	1106 ***********************************	5664	13701 :
2. Coment rendering.							
a) Inside long walls	2	58		6	696		
Short walls		18	· · · · · · · · · · · · · · · · · · ·	6	108	\ ***	
-dodo-	1	18		5	90		
ne projection under roof of tower.	2	36		2	144		
Lower story -do-		22		2	1 44		9.00
-d.c	1	102	##	5#	255		
Upper swory							are and a second
Inside masonary channel including soffit of arc	1.1	50	***************************************	17	850		9
Manhole walls	1	12		62		<u>†</u> 2265 l	
13. Parappt conting the same into item No. A in sub-head No. 12.					894	894	eft.
14. Chirwood Frames.							e e e e e e e
Doors	1	24	1/3	5/19			
Windows	19	22	**	1/3		1	
C.I., Windows	114	144	*	1/3	16.91	47.74	M ***
			100				
	1	Carpied ov	y II			1	

DEVAIL OF MEASUREMENTS, ETO, -- (continued)

Sub-work

(for composite work).

(See Public Works Code, Vol., I. Chapter, XI, paran. 1178 and 1179.)

20 A Section 1	THE POPULATION AS A SUPERIOR AS	Dimer	isions.		Number,		State of the state
Serial No. and name of sub- head and details of work,	Number.	Length,	Brendth.	Haight or depth.	contonts or area.	Wolni.	Antal.
THE COMMENT OF THE PROPERTY OF		Brough	t forward	alian ilianga magametakan dipapar kamburak k- p. y. d	the production of the second s	4	The same of the sa
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				and the second s			
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And again		7.7					
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DISTRICT

ESTINATE No.

DETAIL OF MEASUREMENTS AND CALCULATIONS OF QUANTIFIES.

Sub-work.

(for composite work).

Pumping Station Continued.

(See Public Works Code, Vol. I, Chapter, XI, paras 1178 and 1179.)

		Dimer	eione.		Number,		
Serial No. and name of sub- head and details of work.	Number.	Longth.	Breadth.	Height or depth.	contents or area.	Total,	Grand Total,
and the second state of th	datable net Bellen (1821) ble berith consistence	Shorter (considerant) say six a magnetic expension of the	arydishi tima eriti i mat dalakiy mag ga			Age contracts the second secon	
15. Doors & Windows.		Brough.	t forward				
(a) Sliding doors		. . ا .	S.			250/-	
(b) Trap door		To a	5.			60/-	
(c) Door 2/3 glamed		5	unit in the state of the state	8-2	42		
Windows full Clazed	15	4		5音	330		
C.L.Window	14	3 ‡		24	121		503 Sf4
16. Iron work.							
Hold fast door 2'x2"x}"	6x2	12x 1	: 70		20.40		
-do- windows 14"x14"x4"	4x15x1		90:	1,28	115,20		
-do- C.Z.windowe -do-	4x14x1	84 ×	1,28		107.52	243.	2 lbs.
Miscellaneous iron work	Limp e	ump		50 1	ia.	50 202	lbe. Z lbe.
							ე.6 mde
17. Inner strap No. 40		Re.2/-	#soli				
			L.S.	at.		55/	
18. Manhole cover 1 No.			L.5.	w i		110/	
19. Pully black	1 Job					90/	1
20. Pointing & washing			(4)				
21. Earth filling under flooring.	1	57 t	17%	1.1	1006		
-do-	.1	18	6	2	216		
On masonry channel	1.00	БO	3	5#	825_	2047	Cft.
	W.		1			2.24	
		er e					
		Parried dvöi	ere.				
W958; Man1926,		ARTELES (SAR)			Tage 1		

DETAIL OF MEASUREMENTS, ETC. - (continued)

Sub-work			· .
S150-10078			
	Participation and the state of	e	ere ere province descent
(for composite work).			*. *

(See Public Works Code, Vol. I, Chapter, X1, paras. 1178 and 1179.)

		Dime	nsiona.	Number,			
Serial No. and name of sub- head and details of work,	Number.	Longth.	Breadth.	Height or depth.	contents or area.	Total,	Grand Total.
transport consequent and a state of the stat		Brough	t forward	The state of the s	amaininas qui madoligi y dipunintipun Vidiligi ya Alee y	· · · · · · · · · · · · · · · · · · ·	*** A "and will have ded every \$1,00 effective in \$ \$5 completely
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DISTRICT.

ESTIMATE No ...

DETAIL OF MEASUREMENTS AND CALCULATIONS OF QUANTITIES.

Sasb-work.

Pumping Station Continued.

(for composite work).

(See Public Works Code, Vol. I, Chapter, XI, paras 1178 and 1179.)

6			Dime	nsions	neffert für die Stadium in der der Helbert der Geschaft d	Number,	t gan skrifte die von Elevien ein Verferen erte den ein	HHI PROCESSAN AND ASSESSED TO THE STATE OF T
	Serial No. and name of sub- head and details of work.	Number.	Longth.	Breadth.	Height or depth.	contents or area,	Total,	Grand Total.
-Conserved			Brough	t forward	***			74 San
22.	Saucer drain							
	Left half	1	30a	₩.	5	192		
	Back	1	23 à	, and	5	118		
	Right side		91	***	,	455		
	Filter House R.S.	1	48		64	324		
	-do- Back		69	**	41	293	1382	Sft.
~(Site olearance		Job				95/	•
556-1-19.05 <i>0</i>	Boiling out water of founds.			5.			350/	
25.		as per	b11 1			77.81	cwt.	
	Kharenja masonry of							
		1	68		12	612	612	41.
							an Maria Tradition	4,30
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DETAIL OF MEASUREMENTS, ETC. - (continued)

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Sub-work	e.							
	€ .					5.		
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(for composite work).	, i		1.2					
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(See Public World Cods, Vol. I, Chapter, XI, paran. 1178 and 1179.)

	The Control of the Co	Dimex	wiona,		Number,		
Serial No. and name of sub- head and details of work,	Number.	Longab.	Breadth	Height or depth.	contents	* estent.	Orand Total.
		Brought	forward	ा दा र अवदा अवस्थानीय अवदे निकार स्थित स्थापना हरू है है । यह रहे के स्थापना हरू है है । यह रहे के स्थापना हरू स्थापना स्थापना स्थापना स्थापना स्थापना स्थापना हरू है । यह स्थापना स्थापना स्थापना स्थापना स्थापना स्थापना स्	कारणा क्यांच्या का वे स्थेत्याता स्था नका के स्थानक क	Microphon pphilipance - personalise de	राजित के अधिक में उस मान्युर्वेणक विश्व
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			100 mg/s				
	+ Cuv	ried over		144			

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DETAIL OF WORK.	No.	L.	В,	H.	Quantities.	
Excavation			**************************************	1		
Block.	1	31	74	9	2126 Cft.	
e Vincente en encourage en internation			-1-7P-1			
Long wall	4	22	A Property Control of the Control of	6 🛊	143	
∞ ₫. Q • »	1	58	2.	6 6 3	36	
(av Q, Q) wa	1	63		6 8	63	
-do-	1	5	16	65	49	
Pillar for support of pipes	2	2	2	2	16	
	1	1 ½	18	2		
-40-	1	8	14	3	36	
Outer purapets	2	214	1	1	42	
-do-	1	10录	1	1		
Spening manhole	2	4	1 *	1 2	3	
-do-	2	3	1	*	-2-4	of Cft
Cement concrete.					360 Cft.	
-do-	1	51	72	1 1 2		
R.C.Work			1 ,		110	
Slab over pipe chamber	1		6*			26 cr
-40-	1	7:1	4 8	* *		
<u>Deduct</u> -					250 (3) (2) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4	
Opening of manhole		1	3	Allen College		4 122 cz
						(1942) (2) (1972) (2) (3) (4) (4) (4) (4)
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					and the second of the second o	
						Park III
AD 10. OIU8D-1921 17, W.O.	1			l.		

			M	IEASURE	MENTS.	Section of the sectio
DETAIL OF WORK.		No.	L.	В.	l II.	Quantities.
					MONEY SANGER AND SANGE	
	Transition of the		- 16			*
		32.1 22.1 23.2				
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Specification of the state of t	and an artistic made state or extra relationships	ME	ISUREME	N'I'	1577
DETAIL OF WORK.	No.	L.	В.	H.	Quantities.
5. Lime Masonry		28	4 1	/ 1	6) F2 77 61 61 4
			10	63	273 Cft.
	veren and the second	31	71		240 Cft.
7. Cement pointing	1	22		6.5	143
-do-		5 2		6 2	36
Sen (L. C) ess	1	6-2		6 <u>é</u>	42
∞ Cl Q ∞	1	5		64	32
Pillers	2	8		2	32
• do•	1	6		2	12
do ∙	1	8	jes egif	3	24
-do-	. 1	28		62	182
					505 Sft.
8. Cement plaster					
Opening of manhole	2	4		115	12
-do-	2	3		14	9 21 sft.
9. Lime pointing "	2	211		3	127
	1	10%		3	<u>32</u> 159 Sft.
10. Site clearance	1.1	dot	ns.	12	As. 12/e
					The second secon
				in the state of	
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		48.0			
	5. 				A Carlot Management (1988)
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p.n.e.					
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Sub-heads of Work in which differences occur.	Serial No. of sub-heads,	Quantity,	Rate.	Cost,	Exican Ra	Saving.	S rial No. of aubdecals in neviced listi- mate.	
авилит подраг дост ^{се со} те на выбородо и со тобород и обого по посто бого до посто бого до посто в под посто по		With the state of	(metrigapens were/tilening	Annah kasamen nyaéta bina at ini	workstrange/mytes	Marinal economics misserven	A MARTINEAGONIA CONTINUE TO COMPANY	
Power Station Building Original	1	resi	pel .	56713			₹-	
Revised	1	is	ėst	72709	15996			Change of design, Increased rates for meterials & labour
-do-Equipment Original	2	**	pd.	155400	OCCUPANTA DE LA CALIFORNIA DE LA CALIFOR			
Revised	2	44	a	231311	1			Letest tender received cost increased owing to exchange hoving dropped and increased rates for labour and materia
3. Jan 34ma Alda	-3-	, na	+15	215025		44		1500 and achieve one described season say makes and manifestation
~do- pipe line Original Revised	3	apt.	*	1 . '	288126			Inczence owing to exchange, and -do-
ranemiseion & Distribunginal ion.	4	M	44	277761	247239			Owing to exchange, and -do-
Revised	*							
ind-Station Buildings Original	5		64	10842				
Revised	5	*	*	17177	6535			Change of design. Increased rates for material & labour. Nors - Sab-heads of which the quantities, rates and amounts are identical in both
-do- Equipment Original	6			66420				Nors.—Sab-beads of which the quintities, rates and amounts are identical in both sections are not to be entered. If this page does not auffles, continue the explanation on a separate manuscript.
Revised	6		•	97192	30772			Latest former decirement retes for labour & material.
Temperary buildings Original	™		pg 1	*				
Revised	7			6579	6579			These buildings are quite espendial for the interst of the work & will be handed over to Bunicipal Board after
fork Establishment (Griginal		i						completion of work.
Fasisq	8.9	eN.	79	8640	8640			Original estimate this item was to be not from the cor-
	4 for es			Anna				tingencies. Mow allowed for in estimate.
	1,V,S, 1,V,S		M	9000 63685	54685			Change of design. Increased rates for material & labour.
	2-8%,S.		199	151450	75 L			Latest tender received. Cost increased owing to exchange
Rovingd 🔐	2 7.5.			97.0	108377			having dropped & Increased rates for latent & material
	7,9W.S.	60) - 18	*	92260				and the second of the second o
Contingencies 05/- 5 Revised	10,3¶.8,		4	9553		5270		Baying awing to 5% allowed for in Terland estimate in giv place of 10% in original estimate.
Sanitery busineers, fachignal 💢	8,9		4	121782				
Herped 🔭	1,12,4-	1.3.		222148	100,68			Excess twing to estimate owing excluded in most of the Sub-Bands.
Compensation for type Grigina	18			38 00		3000		
outles doned				М1				O ver bet monet in original estimate.
	. 11	Total or corr	led of eq		945026	7/4/6		

ψ,	W2.	100	8.6	3.33	ures	227.	7. 3.	12.5	230	8. F.	No.	145	350	State.	MAY.	246.	di sa	6.5%	97 Tai	40.00	(K) (S)	850	1.70
V.	20.76	200	$\mathcal{M}_{\mathcal{F}}$	13.	35		346	200	557.8	иn.		25.00	5 735	$\sim \iota$	3ZA	35 Y 1		0.00	7.79	(RHE	多形式	XII.	ridari
ĸ.	100	DO:	3.	9.55	2.00	1600	0.1	11.6	7.8	30	1/2	W.D	36%	200	(2) Gar	1320	437	10.00	NO.	SEI/A	6.62	20-	234
п	100	22	2	17.5	45.7	Sec.		1.32	17.7	1	34	190	0.00	ON I	200	40	3.5		1.5	190	£92	7.7	i Bill
а	43	(m)	254	a viù	662	100	Selection		4.0	5.13	40.3	1375	ΠÜΥ	200	Med	200	State.	630	6.66	355	2649	u voi	1007
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S.	5.5	13.2	i S	64	715	100	N.	0.9	V D	14.8	30 D	100	100	100	6313	241	化胶	4.00	200	300		28.	Me.
	100	3%	80	M. 3	1	BC.	5.6%	5.0	100	36	建设	\mathcal{L}^{g}	80.0	30.0	(to)	100	133	487	206	ana.	A 1977	100	28.0
33	20.0	17/5	2.7	C.F.	100	1			(2 4)	100	1.27	0.00	3.00	11133	80.00	8,20	16535	極能	534	O.C.	her.	SPS:	íriðið
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	2.83		$\lambda \times 1$	17.3	11.7	10	8.11.5	1.6	V.25	6.0	11.2	5.54	SIG.	300	P72-8	833 E	O MI	COL.		EW W	3683	eck 5	246
畅	25	13.0	Sec.	366	$T_{ij} M_{ij}$	CHY.	Les .	1.5	55%	136	150	200	330	4350	na I	93E)	37.74	68.68		CARGO:	6.000	M.	1333
Ø	ES.	200	24	112	440	14.3	158	3.0	110	117	6. 6	200	333	He!	0.80	100	(IN)	100	4.23	10.5	0.31		H#S

1. In the United Provinces, this form is to take the place of Code Form 114, prescribed in the Ochs rules quoted below, which are no longer issued by the G verticent of India.

2. Recipul Retinales will be prepared on the same form as Original Estimates, with the addition of a Comparative Statement and Replanation of Pafferences, on the form (C) which will immodintely proceeds the obstract on Form Yor Z.

3. The Revised Range are the nel be complete in isself, and must not contain any of the documents except plans forming part of the Original Residuals.

4. The report should refer to the original estimate.

The original and all subseques religious issuits and final saccional shelld be quoted in the table of references, with any fresher formers, and quoted in prebulas agaitment estimates.

5. It will year as I'v unlikes in drawing up desails of fresh specifications, calculations, secondarions, and fater form ord in each case that the second by same as in the Congress Belindoon (Nover-) will the following exact times "Exhibit should be seven in full detect, i

G. Plans belonging to in Original Retinate and manifestified and mire of a firmed flatings of Hould harburly recipitors of "Agrica o Imania to Revoled. 22 and chimerard to orgat of latest be the Bertreit Kampin clong with any tresh opens.

Extract from E. W. D. Cole.

Chippen Vil, Paras 707 to 801.

Paranta - Ary development of a project Minight nowest extels a note to intropped a which in inte fairly or inguition the profit execution of the work on their material, many by constituting mpp meetical crafts.

Para 118 ... A Revised to contamost have brighted where Condition as a common with the incommed eigher than the lugar is a great at a firegon ordram aprijujos religiais, cregoj da Gelliggioj (11 p.C)

Jena 149. When krain Reamys theilbritist it up t be emore ned by comparative set up a few. It Boss on West his de out a few the few half and the few to the Executive and the Supermenous heather to of the control exact de sec your plans librares it and a bit the city houselies if don't had he will a hance an geomics wise. The body A sone it sides, this Ware will be it up to be in reported all especification of the canadastic first stated are there to calle the continue of the each dold.

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UNITED	PROVINCES.

DISTRICE

Second Blussion DIVISION. Public Health Death

COMPARATIVE STATEMENT,

And Explanation of Lifteronees between Estimate

Na and Revised Enjoys No. 2

Comparity Stational

of the probable com of Abeliach of

No. 1- Tal Styde Shake Sel

Account of Original Hallmann, 11,34 6.59

of the Bosinsi Colorine, 2073

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Sub-heads of Work in occus		Opfi	Serial No, of sub heads,	Quantity,	Rute.	Cost. Ra.	Extess. Rs.	Saving.	S-rist No. of sub-heads in nevised Esti- mate.	and particular the second control of the sec	namen ann an deile deile der Anne den Anne der Anne der Anne der Anne der Anne der Anne der Anne der Anne der
Hill cutting	Original	**1	•	nil		n11		reary moves experience provide section (no prof	And the second s		
	Revised	ónk	- town	7007 Cf	22/-%	1541	1541			On account of change and of design.	
Exeavation	Original Bovisod	#1# #00	2	13485 Cf1 18864 Cf1	1 1 1		184			On account of increased cost & change of	design.
	ndata)	100	2.	14564 Cf1	20/-%	2912					
line concrete in foun	Revised	41+	3	2451 Cf1	47/-%	1152		1760		Saving owing to alterations in the design	of the building
P.C.Concrete	Orlginsl Bevised		4	ni1 1389 cf1	183/-9	nil 2542	2542			Not included for in the original estimate	
R.S.Lime masonry	Original Revised	\$60 1 448	3 5	21116 Cf 27559 Cf			8313			owing to increased quantities and rates.	
.C.Coperete includin work	in Official Borised	with.	16	972 Cft 1148 Cft						Norm—Sub-heads of which the quantities, rates and amounts estimates are not to be entered. If this page does not suffice, continues the explanation on a continue to the first parties of the page and rates.	are identical in both sparase mandscrips
Cement renderin	Original Revised	G. S.	7	nil 1903 Sft	22/4%	nil 419	419			Not included for in the original estimate	•
Paripan coating	Original Revised	est.	8	nil 1653 Sft	9/-%	n11 149	149			-dododo-	
Sheet from roof incl roof tresses.	id i Colo inal Revised	Water Co.	20 9.15.16	•		8388 6643		1745		Saying on the original estimate.	
Lime pointing	Original Revised	ini in	10	n11 96 292 Sf	t. 4/9 %	n11 439	439		Afficial Control of the Control of t	Not allowed for in original setimate.	
Sal wood work Chair wood work	Original Revised	en m	12., 11.	77 Cft 48,16 Cf	4/8 - 3/4 (346 33.177		189		Saving due to a smaller quantity of materi	al being used
Slicing door	Örlgünü Revised		15 12	100 Sft 2 No.	J/# 93	t 700 500	200			Indicased cost of material	A process of the second
Teak wood door leave	s Origina) Beyined	e e e e e e e e e e e e e e e e e e e	1 3 13	363 Sft 993 Sft		t 1488 t 1181		227		Severa due to reduction in trice allowed f	or in original estimate.

DIVISION.

Sub-heads of Work in which differences occur.	Serial No.	CHAU, 17À.	Rate.	Cost.	Exposs.	Saving.
	Broaght	orward			-	
Original						
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1. In the United Provinces, this form is to take
the place of Code Form 119, prescribed in the Orde
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CHAPTER VII, PARAS, 797 TO 801.

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COMPARATIVE STATEMENT, Power Station Building EXPLANATION OF DIFFERENCES.

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	l Original E	dimate.		

el the Revised Estimate.

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3.5	SA	2.55	60%	72 j	ALC: U	100	10.5	M.	3.5	CHA.	100	in a	13	2.7			de.	191	864		14.1
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18	4.	34.63	43	1.6		19	ed p	150	527		űΧ.	10	20	100	3.3	1,463	4	vi.	die	31 :	3 87
	246	40	1	750	38.0	150	12	10	334	13	1102	663	W		3.10	334	43.5	27	7. 2	42	100
1	300	1.15	W.O	tear.	100	10		31.9	300	122			365	10.53	10.0	, ne	12.0	-	wald	2	100
4.1	100	9	100	63	100	345	100	8127	1300	4.55	200	JHz.	4	26	11	1.12	386	N.T		14.	10
12.4	200	8.35	0.57	500	76.76	500	ω26	1839	746	263	5 34	42.	1	35	130	20	107	2.5	100	33	2.00
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20	20.1	1.11	N.Y	DOM:	200	73.8	J.Y.M	TH.	-	WE	533	ara	100	速点		143	9.5	148	116	39	640
	23.2	0.19		1111	9-41.6	26 P.	4	11.7		121	12%	300	JO.	Min a	100	390	10	(0)	790	gra	2.
12	18	0.1		110	100	2.00	0.7	200	200		0.0	397	533	12.0	4.5	355	200	0.7	ď.	W 6	1.4
8.9	192	133	Bed I		N Day	100	13.5	3534		250	100	7.83	24.1	dia.	WE	N. 11	9.9	331	107	. 199	N ME

Page COMPARATIVE STATEMENT, Staff quarters contd. EXPLANATION OF DIFFERENCES. Page 138.

Sub-heads of Work in who occur,	uich differences	Serial No. of sub heads,	Quantity,	Rate.	Cost,	Extess, Rs.	Saving. Ks.	S rial No. of sub-heads in nevised Asti- mate.	NON- AND AND AND AND AND AND AND AND AND AND
Brought	forward.					7283	420	Widelity School Section Sectio	On account of increased rates & change of design,
Panelled door leaves	Original	13	345 Sft 255 Sft	1 '	1	35			md C**
12"	Revised	197							
Barth filling	Original	1	711 Cft		!				
	hevised	15	810 Cft	14/-%0	11	9.			
Line concrete	Original	2 & 7	1879 Cft	20/-%	375				
	Revised	16	314 Cft	47/-%	148		227		Owing to change of design and saving in quantity but an increase in cost of material
Iron sheeting	Original	, 14	1904	105/-%					
	Revised	. 17	1806 Sft	65/-%	1174		825		Owing to change in design. An increase in quantity and a fa in pries for material.
Aidge	Original	- 1				au t			
	Revised	. 18	151 Lft	1/9 Rft	236	236			Owing to change of design. Nors-Sub-heads of which the quantities, rates and amounts are identical in both
Iron work	Original	16	2 Cwt	74/-Ca	t 148	N. 19.			estimates are not to be entered If this page does not suffice, continue the explanation on a separate manuscript Owing to thirty to the design and a fall in price for material
	Revised	. 19	4.31 Md	50/-Ad.	129		19		Owing to the Wester and a fall in price for material
Painting & Vernishing	Original	15	54568ft	5/11%	313				
	Revised	20	L.S.		100		213		Owing to change of dealgr,
Saucer drain	Criginal								
	Levised	21	875	√10/ <i>*</i>	547	547			Owing to change of design in the buildings.
Sill outting	Original								Owing to the new site required for the pump house.
	Revised	22	18619011	22/-%	4096	4096			A#III 6 1/4 1/16 1/16 1/2 2.50 - 2.44-1-4
Battened doors	Original :	13	78 srt	1/4 31	78		-98		Owing to dhange of design.
Stone and wissing	Devised and	•	19# cp+	30/2/	70	- 4	76		• <i>IG</i>
}" Blate flooring	Original	9	1994 Sft	35/5 %	704		704	4.7	*0*
	Revised 🔐								
Salwood railing	Organi	10	126 Lit	1/ -i ift	126		126		40 0+
j' nigh	Revised in	14							
	a tagley								
	Original Devised								
and the second s	an raidi.								
	-		Total or car	ji.	eranie in .	12206	2840		
H)			Entry (4)	ARM VYCE	#	****	1	Table 1	

Page

DIVISION

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Sub-beads of Work in which differences occur.	Serial No. of sub-heads	Quentity.	Rate,	Cost.	Excess. Rg,	Saving.
	Brought	orward				1
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uniriaki						
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. Original						
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Í	the plac	e of Cod	e Form 11	9, pres	ribed i	и вде О	rae
1	ules qu	nted belo	w, which	are no	onger	188000	by
			of India				

- 2. Revised Estimates will be prepared on the same form as Original Estimates, with the addition of a Comparative Statement and Explanation of Differences, on the form (I') which will immediately precede the abstract on Form Y or Z.
- 3. The Revised Estimate should be complete in itself, and must not contain any of the documents except plans forming part of the Original Estimate.
- 4. The report should refer to the original estimate,

The original and all subsequent administrative and final sarctions should be quoted in the table of references, with any fresh r forences, not quoted in previous sanctioned estimates.

- 5. Is will generally suffice in drawing up details of fresh specifications, calculations, measurements, and rates to record in each once that they will be the same as in the Original Estimates (No. ——) with the following exceptions " (which should be given in full detail.)
- 6. Plans belonging to an Original Estimate and re-submitted as part of a Revised Estimate should be clearly re-indoor of "Accompariments to Krylsad Estimate, o. " and summerated on page I of the Revised Estimate along with any firsh plans.

Extract from P. W. D. Code.

CHAPTER VII, PARAS. 797 TO 801.

Page, 32 - Any development of a project thought necessary while a work is in progress, which is not fairly contingent on the proper execution of the work as first sountioned, must be covered by a supplementary estimate.

Para, 768—A Revised Extinate must be inbuilted when the same in distinate is likely to be exceeded order from the rates being bound on officers or from any cause whatever, except as mentioned in part, 797,

Form 199. When flevited he make is submitted it when he second and by a comparable statement (P. W. D. Form so. 119). It is the duty, a ket of the Extrative and the Extrative and the Extrative and the extraint the progress of constitution directly the progress of constitution directly the progress of constitution directly the constitution of constitution of the co

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DISTRICT

COMPARATIVE STATEMENT.

And Explanation of Differences between Ratinate

No and Revised Listinate No.

of the probable coat of manufactures which the

Account of Original Recomme

of the Lavest Brights.

Difference of the Seriege.

COMPARATIVE STATEMENT. Staff quarters Contd. EXPLANATION OF DIFFERENCES.

Sub-heads of Work in wh	ich differences	Serial No. of sub-heads.	Quantity,	Rute.	Cost,	Ex-chs.	Suving.	S-rial No. of sub-heads in to evised Rationate,	
Brought f	arrard					12206	2690	· · · · · · · · · · · · · · · · · · ·	
Sheet iron shade	Original	18	12 Nos	8/-eacl	96		96		On account of change of design,
OTTGG R 3% Are organi	Revised		Ą		nil				
		40	ONOK.	6/8%	132		152		
Stone work	Original	19/	2025 nil	U/ U/V	nil		·V"		*do.*
	hevised		117.						
Retaining wall &	Original	20			385		385		
levelling site	Revised			'	nil				-do-
	Original								
	Original								
		geographic and a second							
	Original/								
	Revised								Norn-Sub-heads of which the quantities, rates and amounts are identical in both
	Original					i			More—Sub-heads of which the quantities, rates and amounts are identical in both estimates are not to be entered. If this page does not suffice, continue the explanation on a separate manuscript sheet in this form to face next page.
	Revised								officel in and total an luck first latter
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	Original Revised								
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	hovised								
	Original								
	Revised								
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COMPARATIVE STATEMENT- (concluded).

, Sub-leads of Work in which differences. Group	Serial No.	Quantity.	Rate,	Cost.	Exorss.	Saving,
16 (44)	aub heada			18.	Pa,	Rs.
	Brought	orward			12206	3303
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		Togi was	8 400 877 6		2206	3303
		No. or	er af schi		3903	
Alberta (2000)						

NOTES.

- 1. In the United Provinces, this form is to take the place of Code Form 119, prescribed in the Code rules quoted below, which are no longer issued by the Government of India.
- 2. Revised Estimates will be prepared on the same form as Original Estimates, with the addition of a Comparative Statement and Emplanation of Differences, on the form (F) which will immediately precede the abstract on Form Y or Z,
- 3. The Revised Estimate should be complete in itself, and must not contain any of the documents except plans forming part of the Original Estimate.
- 4. The report should refer to the original estimate.

The original and all subsequent administrative and final saccious should be quoted in the table of references, with any fresh r ferences, and quoted in previous sanctioned estimates.

- 5. It will penerally suffice in drawing up details of fresh specifications, calculations, measurements, and rates to recordine scheme as in the Original Betimates (No.———) with the tallowing exceptions "(-which should be given in full detail.)
- 6. Plans belonging to an Original Estimate and re-submitted as part of a Revised Estimate should be clearly re-indexed "Accompaniments to Revised Estimates on page 1 of the Revised Estimate along with any fresh plans:

Extract from & W. D. Code,

CHAPIRE VII, PARAS. 797 TO 801,

Para, 32.— has development of a project hought necessary while a work is in progress, which is not lairly continuous on the proper execution of the work as hear sunctioned, must be covered by a supplementary actuate.

Para, Vol. — All versed between much per ulimitted when the same is a described as the lyst he exceeded other from the rates boug ferror unflicing or from any cause what voly except as mentioned in para, 701

Land 199. When Review Es made is submitted it must be accompared by a comparative scattering (P. W. D. Rarm vo. 199). The in the convenience of the Expension and to Superintending Engineer to rate beared by the progress of expenditures and to working a Respondence of the Departy Accountance energy, with the Departy Accountance energy, with the respect to the propositional Human, with the respect to be expended, and Human the counter to be expended.

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UNITED PROVINCES.

Vaini Tal DISTRICT

Second Division

Public Health Department.

And Explanation of Differences between Estimate

COMPARATIVE STATEMENT,

No. and Revised Emimate No.

of the probable cost of Staff Quarters.

Naini Tal Hydro-Hechric

Scheme.

Azemstai Original Ratings. 9629:

of the Refined Bellings, 18554.

(Evene 8905) D'Tojaned or

Satisga

Note that the same

Sub-heads of Work in wi	ich differenc	es	Serial No. of sub heads,	Quantity,	Rate.	Cost.	Ex. cas.	Saving. Rs.	S rial No. of sub-heads in Levited Esti- mate.	
Ex c avet ion	Original	406	1	 1330 Cft	6/-%0	8				
	Revised	242	35	3038 Cft	14/-%0	43	35			On account of increased rates & change of design.
Line masonry	Original		2	2351 Cft		644				Change in design for increased quantities. Cost of lime & labour under estimated in original estimate.
	hevised	,,,,	2 -	4971 Cft	51/3%	2545	1901			TOOMT MINE! OR ATHEORY OF AND ATHER ASSESSMENT
Cement masonyy	Original	186								
	Revised	111	ð	3.29 Cft	130/-%	4	4			Owing to change in design
Clay masonry	Original	11.	5	2629 Oft	21/-%	552				Change in design for decreased quantities. Rates increased t
	Revised	112	4	1626 Cft	46/-%	748	196			meet present cost of material and labour.
R.C.Work including	Original	,,,	6	50 cr	2/100	t 131				Owing to change in design Rate for coment under estimated i
iron	Revised	≯ •0	5	115 Cf	3/8 0	t 396	265			original estimate.
Lime plaster	Original	eas	11	5803 Sft	4/8 %	261				NOTE - Sub-heads of which the quantities, rates and amounts are identical for both extinuous are not to be entered. If this more does not suffice continuously and the sub-rate is a sub-rate of the sub-rate
	Revised	104	6.4	2855 Sft	8/8 %	243		18		If the page does not enflow, continue the explanation on a separate manuscript Unange the highlights Sayling quantity. Increased rate to mee cost of lime.
Lime pointing	Original	***								
	Revised	450	7	1894 Sft	4/9 %	86	86			Owing to change in design
Sel wood work	Criginal	664	9	k 131 Cft	4/8	590				Change in dealgn. Mate reduced to meet present cost of timber
This wood work	Levised.	181	8	185 Cft	3/4 Cf	t 601	- 11			*d0*
i placking for roofi	n g rigital	ago.	10	1505 Sft	21/10%	325				
	Kevised	991	9	1836 Sft	30/5 %	557	232			Change in design. Rate increased to meet cost of labour
Iron sheeting	Original	410	17	 1760 Sft	105%	1848				Reduced quantities. Rate reduced to meet present market fate
	Lavised		.10	1836 S£1	65/-)	1193		655		iron sheeting.
Hidge	Original -									
	Revised	961	11	102 811	1/) S1	t 159	179.			not allowed for in original estimate.
Clazed & penelled	Original		8,	345 31	1/6 3/	400				Change is leeign. Reduced quantities. Rate increased to make
doors à Wipdows	第 35000000000000000000000000000000000000	2 80	12	272 8£t			72	A		cest of labour.
Cement concrete	Original							i i		
f1111 4 g	Revised	981	6	156 C£t	183/-8	285	35 - 1 1283			Saing to County in design
entracement of the control of the co				-98						
		- Chi		Dotal or can		ū	3246	10		With the second second

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Sub-heads of Work in which differences	Serial No. of sub-heads.	Quantity.	Rate.	Cost.	Exerss.	Saving,
æ	Brought	orward		entered to the second		
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1. In the United Provinces, this form is to take the place of Code Born 119, prescribed in the Code rules quoted below, which are no longer issued by the G. vernment of India,

2. Revised Retimales will be prepared on the same form as Original Estimates, with the addition of a Comparative Statement and Rapianation of Differences, on the form (f) which will immediately precede the abstract on Form Y of Z.

3. The Revised Estimate the uld be complete in itself, and must not contain any of the documents except plans forming part of the Original Estimate.

4. The report should refer to the original estimate,

The original and all subsequent administrative and final salucious should be quoted in the table of references, with any fresh r farences, not quoted in previous sanctioned estimates.

- 5. It will general disuffice in drawing up details of fresh specifications, calculations, measurements, and rates to record in each once that they "will be the same as in the Original Estimates (No.........) with the following exceptions" (which should be given in full detail.)
- 6. Plane belonging to an Original Estimate and re-submitted as part of a Revined Returnes about beclearly re-induced "Accompagaments activitied Estimate." On "and enumerated on page 1 of the Revised Estimate along with any firsh page.

Axtract from A. W. D. Cone.

CHAPTRE VIL, PARAS, 797 to SOL.

Para, \$2.— Any development of a project thought naces any while a work is in progress, which is not fairly contingent on the proper execution of the work as five sauctioned, must be covered by a supplementary solution.

Para 198—A Revised Believel must be abouted, when the same is not entire to likely to be exceeded of the r from the rate. It may bound no off-depict from sure cases whatever, except as a continued in our 1781.

Tape, Tap. When Review Respects is indicative it was no accompanied by a companied and more of an indicative and the Executive Execution and the Executive Accompanies and the Beauty Respective Accompanies and the Public Warra, will be responsible that reporting all-regard to the execution that the Execution are only in Charles of warra which are likely to be the execution that the earlies the exchange to be exceeded.

Para 501.—When expenses occurs them, an advanced point of the constraint of a variety tender and months into of all toward forthers recognized the second properties are second in which details that only depend on the constraint of the Original Estimate.

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Amount of Original Releases

of the Review Expresse.

Difference or Savings.

Sub-heads of Work in whi	ch dillorences	Scrial No. of sub heads,	Quantity,	Risto.	Cost,	Ex. obs.	Suvinge Rs.	Serial No. of sub-heads in nevised listi- mate.	THE LANGE OF THE PROPERTY OF T
Brought for	ward.	a Alberty Verspager (some semigradus)	The state of the common of the state of the			3246	. 673	o internal citiza y concentral del aplaca	
Lime concrete filling	Original	14	1056 Cft 468 Cft		211 220	9			Change in design. Reduced quantities. Nate increased to meet one of line Sand and labour. and change of design.
Rerth filling	Original	15	535 Cft 1268 Cft	1 .	2 -18	16		-	Change in design and rate increased owing to level for earth.
Iren work	Original	16	1.5 Cwt 2Ma.221b	74/-Cer 50/-	68		45		Change in design. Rate reduced to meet present cost of iron material.
Site Claarance	Original	17	LoGa		385 30		355		Change in design.
Painting & Varnishing	Onguel Revised	19	3982 L _s s.	5/11%	215		155		-do- Norz-Sub-heads of which the distribute, rates and amounts are identical in both categories are not to be entered
Coaltaring	Original Rovised	10	laŭ.		15	1			If this page does not suffice, commune the explanation on a separate manuscript. -do-
Sgucer drain	Original Royand	20	906 Srt	-/10/\$	1 1 56 6	566			Not allowed for in original estimate:
i elate flooring	triginal	1	945 Set n11	25/59	334 111		534		Owing to change in design.
White washing	Original		5803 B11 #11	-/6/6/	24 nil		24		Owing to change in designdo-
Stone work	Original	Transfer of	8 cft	6/8 G ft	7 2		j2		Owing to change in design.
Sheet iron sunshado	Original		E No.	8/*84	u 48		48		
Mistake in totalling in original estimate	Örigioal " Naviaal "						90		Adjustment with original estimate
	Original ;; Noviced ;;	1 4 4							
			Polal is to	grid origi	i i	j (Z	1:89		

Quantity,

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Sub-heads of Work in which differences

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1. In the United Provinces, this form is to take the place of Code Form 113, prescribed in the Code rules quoted below, which are no longer issued by the Gevernment of India.

Saving.

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Cost.

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Excess.

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- 2. Revised Batimates will be prepared on the same form as Original Estimates, with the addition of a Comparative Statement and Explanation of Differences, on the form (P) which will immediately proceeds the observed on Form Y or Z.
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- 4. The report should refer to the original estimate.

The original and all subsequent administrative and final su origins should be quoted in the table of references, with any fresh r forences, not quoted in previous superconed estimates.

- 6. Plans belonging to an Original Betimale and restaurations as part of a Bevised Estimate should be electly re-induced "Accompaniements to Revised Betimate to: "and unumerated on page I of the Revised Estimate along with any fresh quals.

Extract from ". W. D. Code.

CHAPTER VIL PARAS, 797 to 801.

Para, 27.— Any development of a proper thought necessary while a wors is in property, which is not narry contingent on the graphs execution of the work as first contributed, must be covered by a appreciationary convert.

Parm 198 — A Recised By imate must be committed when the senior of desimate Makker who excepted only to senior or or on any usual methods of the committee of t

tame, 14. When so had be incided a plantified in their beaution from by a comparative sectment (Y. W. D. Tenneso, 14th). It is the duty a lay of the 'Knowley' and the Superintenting Digmon to not by gatefully the progress of exceedings and to see that R. while Submit is submitted another the increases rates. The Digmon A common senaral value. When so, will be respective to translating all excess in 1958 a largue that selected as heavy a cause also estimate to be accorded.

Page 80: «When expenses county some an arranged proof of the color material areas as to carrie the color of a county of the color of a county of the color of the

UNITED PROVINCES.

deini Tel DISTRICT.

Second Division.
Public Secith Legat.

COMPARATIVE STATEMENT,

And Explanation of Differences between Estimate

No. and Revised Estimate No.

of the probable cost of Superintenden to

quarter.

Buini Tal Sydro-Blactito Supply

rangundal Orginal Bahmara, 6233

a da Revised Bilinate. 8400

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Sub-heads of Work in woodens.	hich differen	CHS	Serial No. of sub-heads,	Quantity,	Ruto.	Cost,	Extern.	Saving.	S rial No. of sub-leads in nevised fisti- mate,	man, makkata kita maka maka minengan mangan mangan mangan mangan mangan mangan kangan mangan kangan mangan kang Tangan mangan
Earth work	Original		4 .	247 Cft		1	,			On account of increased rates and change of design.
	Revised	A . •		520 cft	14/-/00	7	6			OH SCAONIC OF THELESSEY LEVEZ STR CHSUCA OF ARRANGE
mill cutting	Original Revised	111	2	1960"	22/-%0	43	43			-do-
Lime masonry	Original		3 3	446 Cf 1207 Cft	28/4%	126 525	399			Change in design. Increased quantities. Rate increased to meet cost of Lime sand and labour.
Olay masonry	Revised Original	. 400	<i>J</i>	594 Cft		125	3//			Change in design. Reduced quantities. Rate reduced to meet
	Revised	100	4	523 Cft		240	115			present cost of kkukura. material & labourdo-
Sal wood work	Original	529	8	15 Cft		1.0				Change in design. Increased quantities, Rate reduced to meet
Chir wood work	Revised). •11.	8	2219 Oft	3/4 Cf	72	4			present cost of timbers. Nors-Sub-beads of which the quantities, rates and amounts are identical in both
₹ Planking	Original Revised	948	9	127 Sft 240 Sft	21/10% 30/5 8		44			estimates are not to be entered. If this page does not suffice, continue the explanation on a separate manuscript does not this form to just next page. does
	rested	es#								
aloging	Original Revised	964 809	7	32"	1/9 Rf	50	50			Owing to change in design
Iron sheeting inclu-	Criginal	501	14	133 Sft	105/-%	140				Change in design, Increased quantities. Rate reduced to meet.
ding fixing	levised	103	8	240 Sft	65/-%	156	16			present cost of Iron sheeting.
Lime pointing	Original					nil				Owing to change in dealgn.
	Revised	Akt	9	884 Sft	4/9 %	40	40			≈00×
Lime pleater	Original	BOY	10	12658£t		61		27		Owing to change in design, Pate Increased to meet cost of meterial and labour.
	Revised	org	10	404 Sft	0/0/0	34		-1		
Narth filling	Original	 				nil		. 54		
	Revived	831	11	120,021	14/-%	2	2			oning to steeps in Coulds.
Stene paving	Örlyina)	.,				gil				in the second se
	Revised	#1	12	30 åft	48/46	1	14			
Site diagraps	Original	n.	15			182				
	Revised :	See	19	J.8.		9		102		4
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				Cotal or car	not over	ŭ.	733			

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I. In the United Provinces, this form is to take the place of Code Form 119, prescribed in the Code rules quoted below, which are no longer—issued—by the Gevernment of India.

2. Revised Estimates will be prepared on the same form as Original Estimates, with the addition of a Comparative Statement and Explanation of Differences, on the form (F) which will immediately precede the obstract on Form Y or Z.

3. The Revised Estimate shall be complete in itself, and must not contain any of the documents except plans forming part of the Original Estimate.

4. The report should refer to the original estimate.

The original and all subsequent administrative and final ear origins should be quoted in the table of references, with any fresh r ferences, not quoted in previous sunctioned estimates.

5. It will perestly suffice in drawing up details of fresh specifications, each other, consurrements, and takes to re-ord in each case that they "will be the same as in the Original Retinates (No.——) with the following exceptions" (which should be given in full detail.)

6. Plans belonging to an Original Estimate should re-submitted as pure of a Revised Estimate should be clearly re-udarsed." Accompanionents to Revised Estimate to "and counterated on page 1 of the Sevised Estimate along with any fresh glass.

· Extraob from P. W. D. Code,

Charran VII, Panas, 797 to 801.

Pura, 3: — Any development of a project shought necessary while a work in it progress, which is not fairly contingent on the proper execution of the work as these sametimed, must be covered by a copin mentary estimate.

Para, 148.—A Revised Beliandia must be submitted, when the sance in described is likely in he exceeded, which from the fates being found in affidence or from any cause, what very except as treationed in part, 197.

Then, 760.—When firsted he made is submitted it must be accompanion by a temperative sectional (**Y. 1). Form we, List, it is the dust mixe of the Executive and the Supermenting Employer to which carefully the progress of expenditure and be such that Leavest Format. It submitted principles necessive prises, The Deputy Accompanion to research with the reposition of a research with the submitted of the submitted

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COMPARATIVE STATEMENT.

And Explanation of Differences between Estimate

No. and Revised Eminute No.

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Brought for	ward.					733	159	- ANTI Un the commence and the second	
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V	Revised	14	404 Sf	-/10/6%	3		3		On account of increased rates and change of design.
	0.11.3	17	52 Sft	1/4 52	65				
12" Door Leave	Original	At		2/-sft		43			-do-
	hevised		12						
k.S. Work including	Original		1	2/10 0	1	NA.	,		
Iron	Revised	16	13.13Cft	3/8 CT	46	22			
fron work	Original	13	0.250vt	74/-0	t 19				
	Revised	17	15.54 1b	30/-M	ds 6		13		Change of design.
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Coaltering	Original Bevised		L.S.		10	10			•do•
	220 1/DUU - na.								Norn-Sub-heads of which the quantities, rates and amounts are identical in bot extensives are not to be entered
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	Revised	19	L.S.		25	3 -			VIII GOVANA
Stone lime concrete	Original	2	129 Cft	20/-%	26		26		Change of design.
	Revised								· · · · · · · · · · · · · · · · · · ·
}" slate flooring	J. Maria	6	80 Sit	35/5%	28		28		*400*
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Sub-heads of Work in which differences occur.	Serial No. of sub-heads	Quantity.	Rate.	Cost.	Excess.	Saving, Rs.	I. In the United Provinces, this form is to take the place of Code Form 119, prescribed in the Orde rules quoted below, which are no longer issued by	UNITED PROVINCES. Naini Tal District.
Original	Brought	orward			813	228	the Government of India. 2. Revised Estimates will be prepared on the same form as Original Estimates, with the addition of a Comparative Statement and Explanation of Differences, on the form (!) which will immediately precede the abstract on Form Y or Z.	Second DIVISION, Public lical to Department, COMPARATIVE STATEMENT,
Mévised				 			 The Revised Estimate should be complete in itself, and must not contain any of the documents except plans forming part of the Original Estimate. 	And Explanation of Differences between Estimate
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Original Reii ol Original Revised							previous sanctioned estimates. 5. It will generally suffice in drawing up details of fresh specifications, calculations, measurements, and rates to record in each case that they "will be the same and the triginal Estimates (No) with the tellowing exceptions." (which about the given in full detail.)	Ngini Tel Lydro Electric Supply
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2. Revised Estimates will be prepared on the

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1. In the United Provinces, this form is to take

the place of Code Form 119, prescribed in the Ocde

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the G verument of India.

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4. The report should refer to the original estimate.

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- 5. It will generally suffice in drawing up details of fresh epositionions, calculations, measurements, and rates to record in each own that they "will be the same as in the Original Estimates (No.) with the fellowing exceptions" (which should be given in full details)
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Extract from P. W. D. Code.

CHAPTER VII, PARAS, 797 to 801.

Para, 12 - Any development of a project thought necessary while a work in in progress, which is not fairly contingent on the proper execution of the work he first exactioned, hind he severed by a supplementary estimate.

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COMPARATIVE STATEMENT. Inspection House.

EXPLANATION OF DIFFERENCES.

Page 145.

ab-heads of Work in which occur,	differences	Serial No. of sub heads,	Quantity,	Rute.	Cost, Rs	Ex ess. Es.	Saving, Rs,	S rist to, of sub-heads in toxised fisti- mate.	
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- 2. Revised Estimates will be prepared on the same form as Original Estimates, with the addition of a Comparative Statement and Emplanation of Differences, on the form (F) which will immediately precede the observes on Form Y or Z.
- 3. the Revised Estimate should be complete in itself, and must not contain any of the documents except plans forming part of the Original Estimate.
- 4. The report should refer to the original estimate.

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- 6. Plans belonging to an Original Estimate and re-admitted as part of a Revised Estimate should be clearly re-induced "Accompanionally to Revised Estimate" and enumerated on page 1 of the Revised Estimate along with any fresh opens.

Extract from P. W. D. Code.

CHAPTER VII, PARAS, 797 TO 801.

Para, 32 - Any development of a project thought necess, y while a work is in progress, which is not fairly contingent on the proper execution of the work as first sanctioned, must be covered by a supplementary settleste.

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Office funniture	Original				750				
	Revised	11 1			750				
Workshop equipment	Original				27150		opára		
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2. Revised Betimates will be prepared on the same form as Original Estimates, with the addition of a Comparative Statement and Explanation of Differences, on the form (F) which will immediately preceds the abstract on Form Y or Z.

5. The Revised Estimate should be complete in itself, and must not contain any of the documents except plans forming part of the Original Retinate.

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- I. Is will generally suffice in drawing up details of fresh specifications, calculations, monsurements, and rates to record in each associate they " will be the same as in the Original Estimates (No. --) with the tellowing exceptions" (which should be given in full detail.)
- 6. Plans belonging to an Original Estimate and re-summitted by part of a Revised Estimate should backerly re-informed "Accompaniements to Revised "and enumerated on page 1 of Ballanta D. the Revised Estimate along with any fresh place.

Extract from P. W. D. Code,

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3. The Revised Estimate should be complete in itself, and must not contain any of the documents except plans forming part of the Original Estimate,

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Extract from P. W. D. Code.

CHAPTER VII, PARAS, 797 TO 801.

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Naini Tal Hydro Electric Scheme.

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Note by Sanitary Engineer, Naini Tal Hydro-Electric Scheme.

SEVERAL alternative schemes have been prepared for the utilization of the power stored in the lake and the neighbouring springs for purposes of lighting and pumping in Naini Tal. It is profitless to go over old ground and describe the different schemes in detail especially as the history of the various schemes is fully recorded by Mr. West in the report of his scheme of 1915, which I enclose for reference (without the drawings). It will however be interesting to mention what the different proposals were.

- (1) Mr. Goument's scheme of 1908 to cost Rs. 1,40,000. This scheme was moderate indeed and was intended merely to supply electricity to Government House and some public buildings together with 3 miles of road lighting.
- (2) Mr. Tufnell's scheme. This scheme was based on Mr. Goument's figures but was a bit more ambitious. It was to cost Rs. 1,84,000 but the supply of electricity was to be limited to Government House and certain large public buildings and 4 miles of road were to be lighted.
- (3) Mr. Tufnell's revised scheme. This scheme provided for the harnessing of the Sipahi dhara, Krishnapur and Coolie dhara springs. Mr. Tufnell estimated the yield of these springs to be 185 gallons per minute whereas Mr. West subsequently estimated it at 560 gallons per minute. The scheme provided for 13 miles of street lighting (against 4 miles in the former estimate) together with 141 miles of distribution mains for private lighting. The estimate amounted to Rs. 2,78,235.
- (4) Mr. West's scheme of 1918 amounting to Rs. 4,49,399 This scheme was based on the assumption that Mr. Tufnell had not taken full advantage of the water power available in the springs and an attempt was made to calculate the maximum demand for electric current, in Naint Tal., So far the schemes considered merely the more urgent demands without any reference to future requirements. Now.Mr. West went rather carefully into the matter with Mr. Bell the Electrical Engineer to Government and compared the demands with those of Mussoorie in 1914-15. It is a fact that since that year the demands of Mussoorie have increased considerably and have thrown a brighter light on the situation. Also I fear Mr. West bas over-estimated the yield of the springs from which he proposed to obtain his power. This seems to be due not to any fault of his but to the fact that no single gauging of a spring can give any reliable information. I personally checked the discharge of the springs with Mr. Hoey and his figure of 200 gallons per minube is correct (see page 6 of his report)? The fact is that a single estimate of yield is not, a safe datum to work on especially when irrigation is done from the springs also actual greids vary from year to year and what is really required is a complete hydrograph of each spring extend ing over a period of at least len years.

Again in order to harness the springs expensive storage and head works are necessary and head note thereughly in the luke supply was not investigated more thereughly in the

This was a serious omission and discounted its usefulness H. M. Willimorr. 0-10-1919.

This trigation is of nerecount and result be stopged. But the last remains that the discussed from the springs is variable from year 8 Year. H. M. Warlacory

9-10-1919

first instance. It is certainly very tempting to tap springs which do not in any way affect the lake level but I think it is perfectly clear that the lake level will never fall uncontertably below its normal low level in ordinary years, and that if a careful watch is kept on it, it will give no trouble even under abnormal circumstances — with this subject I will deal later.

Mr. West in his report has estimated that the consumption for private lighting per aunum will be $\frac{300}{920} \times 108000$ units: This he calculates on the Mussoorio figures of 1914-15 which, no doubt, were quite reasonable at that time, but it will be seen that Mr. Heey's figure for exceeds this, being in fact 292,626 units (see page 37 of his estimate). I am inclined to think that this figure is somewhat ever the mark, but I leave it as an estimate, feeling as I do, that he has under estimated the lead for cooking and heating and baxar lighting.

Again Mr. West allows for street lighting-25 lights per mile against Mr. Heey's 35.

Lastly, and I think this is a serious omission, Mr. West has not included the electricheation of the water supply in his scheme.

I wish it to be distinctly understood that I am far from wishing to make little of Mr. West's scheme which, I think, has many exactlent points, but I think that in the light of more recent experience it is necessary to revise it on targer lines.

In short. I do not think that the scheme is comprehensive enough. The yield of the springs from which he proposes to derive his power is very doubtful, the loads he calculates are based on Mussooric figures, which are now. I believe, out of date, and lastly it is necessary to include power for pumping in the scheme.

I think the above note justiles the revision of the acheme which has been undertaken under the orders of the Chief Engineer. The revised estimate has been prepared by Mr. Hoey who has investigated the case very thoroughly in close consulation with Mr. Bull, the Electrical Engineer, and the representative of Massrs. Mather and Platt. The Massourie figures and loads have been closely compared and I am convinced that no pains shave been spared to bring the scheme up-to-date in every respect and that avery possible contingency has been considered. As far as can be seen at present I cannot believe that the scheme can be anything but a success and that it will meet all demands for the next twenty-five or thirty years.

Laced not describe the scheme as it has already been so fully deals with in Mr. Heey's report but there are a few points which perhaps might be explained more fully.

It is proposed to utilise the lake water for the power conting is obviously the proper course to pursue because expensive storage reservoirs are avoided. I are certain that a certain amount of opposition to this course will be stevetable, because of the fear of the lake level failing dauperously low during the summer mouths if there is an example on a dronging.

Tagree subject to this provise.
H. M. Will. worr.
9-10-1919.

The cooking and hosting leads are innovations but must be considered to a reasonable extent.

H. M. Willinger.

9-10-1919.

This was certainly a questionable expedient especially with pumps needing cenewal at an early date

. 31 M. Whamowe ...9-10-1919.

I agree II M. Williagty 9.10-1919

While this is somewhat ophimicitic. I am satisfied that the proposals cannot be improved on in all exemptions, and that he material axis made as a loss of the proposals of the

years. Ff. M. Wildalory 8-10-1916 It is safe to say that this will not exceed I feet under the worst conditions provided the lake discharge operations be entrusted to one efficient effect.

H. M. WILLMOTT-9-10-1919.

This must be done and it will have to be kept in working order

13. M. WILLMOTT.
9-10-1919.

A minimum gauge must be fixed for April to avoid trouble from the insanitary forcehore and its public decomposing veeds.

If M. Willmorr

9-10-1910.

The regulation that matters is that of the various piped outlets primarily for the chobi-gauts dushing of all kinds. The cart road demands must also be met and they me growing capilly with the increase of motor transpart.

transport, H. W. Willisow: 9-10-1619.

The lake raising up to 2 feel in maximum genge will not be needed for five or six years and may then cost Rg. 30,000 it done thereugh

71. M. Williacut. 0:10:1919. The Executive Engineer calculates that during the nine dry months, i.e., from 15th July to 15th October evaporation and leakage may account for 3.75 feet, because in 1915.16 a total fall of 3.8 feet was recorded although there had been a rainfall of 6.97 inches in the dry interval. He again quotes the figures of 1912-13 which gave a drop of 2.7 feet with a rainfall of 1.75 inches during the dry period. Obviously the 1915-16 figure is unreliable and was due to bad regulation. I do not anticipate a greater fall than 2.5 feet in the year from evaporation and leakage under the worst circumstances because I am convinced that a considerable quantity of water is wasted at present in flushing at the Talli Tal end of the lake and that the regulation at the sluices is nothing like efficient. I therefore do not anticipate a greater variation than—

Evaporation ... 2.5 feet. Power purposes ... 3.4

Total ... 5.9 or say 6 feet.

The extreme variation at present in very dry years seems to be 4.75 feet, i.e., we must look for a fall in extreme cases of 1.25 feet below the present lowest level. Now this will occur once in perhaps 20 years, and need not, therefore, be feared, especially as the present steam-driven plant for the water works is to be retained as a standby and can be put into commission at a moment's notice if the lake level is falling uncomfortably rapidly. I am proposing (later in this note) to do all the pumping between 6 a.m., and 6 p.m. and as the lake pumps which at present supply the Government House gardens with water will also be kept as a standby, it will be seen from the load schedule on page 44 of estimate that the whole electric plant can be shut down during those hours and the total daily expenditure of lake water can be reduced by half; i.e., assuming that towards the end of April it commenced to become apparent that owing to shore winter rains the lake was dropping rapidly (take the example of the year 1902, page 56). The pumps would be started and kept going for say May and June-this would mean a saving of about 70,000 c. ft. per day, the conditions being severe, or 70,000×62 days=4,340,000 c.ft. which means a depth of 0.8 feet of the lake.

Now this would be an extreme ease and even in such a case it can be seen that with judicious regulation the lake need not fall more than 6 inches below its present extreme level. At this same time I am of opinion that the crest of the outfall well should be raised by 18 inches but this need not be done until it is seen by experience that such a course is necessary. It may of course happen that the diversity factor applied on pages 49 and 50 of the estimate is too low and the expenditure of water may be considerably higher than appropried but this will askessome years to ascertain and obviously there is no necessity to be in a harry about the raising of the take level but it would advise that a scheme us prepared for the raising of the crest of the weir, so that works may be ready to proceed, if necessary, at a frience mature

I think enough has been said to show that the water level in the lake need never be any lower than at present.

The intake designed by Mr. Hoey is not to my liking. I quite appreciate the value of a long intake pipe in the lake, but this seems an unuccessary complication. The pipe will be difficult to lay and more difficult to repair. I recommend an ordinary intake with no pipe with the invert level at R.L. 6,344.0 as suggested by Mr. Hoey. This will be easily designed and a grating can be provided to prevent choking. There will be a watchman on the spot and the fear of choking can be reduced to a minimum. A revised design on cheaper lines will, therefore, have to be made. The site of the intake has been selected by me in consultation with Mr. Hoey and will stand as suggested in the project. I have no fault to find with the alignment of the power pipe line and agree with the specifications of joints and remarks regarding station buildings.

The tail race weir and liquid level recorder are necessary especially for the efficiency tests of the power units and as a check on the consumption of water. I have no remarks to make regarding the power plant and power station and sub-station equipment and the transmission and distribution lines but I have a good deal to say on the subject of water supply and the power provided for the pumps.

Mr. Hoey provides for a consumption of 15 gallons per head per day and has provided two motor driven three throw pumps delivering 68 g.p.m. against a head of 1152 feet for the high lovel area—(see page 63 of estimate.) These he proposes to work for 20-2 hours. Now from his auticipated load line on page 46 it will be seen that between the hours of 7 and 10 at night his lead is pretty high and he, therefore has no time for extra pumping should it ever be required; i.e., he is tied to 15 gallons per head and beeno means of increesing it by pumping more than 21 hours clibough he has plenty of storage capacity. The population on the high level mains is purely European and when a water carried sewage system is provided the flushing will take 5 gallons per head if not more and they will be reduced to a 10 gallon supply for other purposes. This I maintain is absolutely inadequate.

I can see from Mr. Hoey's statement on page 63 that he has tried hard to make his meters both for the high and low levels interchangeable but I fear he has done so at the expense of safety. I do not approve of the small motor for the high level pumps because the efficiency of the plunger pump of 70 per cent; cannot be relied on when the valves, valve seats and the plungers wear—it will be safer to assume an efficiency of 50 per cent. Again it is massive to assume a less of efficiency of 4 per cent, in gearing.

The loss in citroen gear is ... 5 per cent.
Ditto belical gear is ... 10 ...
Ditto spur pinion gear is ... 15 ...
Ditto belts (when new) is ... 10

Therefore 96 per cent. efficiency to genring is unusual and I do not agree to anything more than 90 per cent, for estimating purposes. As delegaed there will be a heavy slip I mount this emblect to examination of the detailed donign. II. M. Whilmour 9-10-1919.

A duily inspection will suffice.

II. M. Williamer.
9-10-1019.

I have indicated to Mr. Hoey name changes on the lay-out of the office and store room, and modifications of the power house design.

H. M. Williamory, 9-10-1019.

This is cortainly execuave involving more than two ordinary shifts and no expension. If M. Wingmore 0.10-10-10.

Fifteen gathens per head for the population of 22,000 is thely to sattle to many years inclusive of a fair allowance for gardons and flughing.

II M. Willscorp., 9:10:1010.

This is most desirable at he outset H. M. WILLMOTT. 9-10-1919.

as the pumps get old and the supply will be deficient to a certainty. I, therefore, propose to pump the supply of 15 gallons per head in 12 hours instead of 20 (thus providing a possible extension of pumping hours, if necessary) and to provide a pump delivering 120 g.p.m. instead of 68 g.p.m. This means a motor of 94 H. P. or 80 K. W. This means that the estimate for water supply alterations on page 145 will be increased.

Item (2) Pumps

	Rs.
Two motor driven three throw pumps	
head 1300 feet 120 g.p.m. erected	27,000
Instead of Rs. 17,000 as estimated on	
an excess of	10,000
Add for a new rising main to Cheena	18,421
Also for lifting existing 4 inches Cheena	
main and relaying it to Ayarpata	1,217
Cotal	29,638
	Secretaria de la composição de la compos

I would like to say that it is doubtful whother it would be wise to instal multi stage contrifugal pumps for the intermediate level reservoir.

The Simla municipality should be consulted alones because I understand that they have had brouble with thoirs. If it is decided that centrifugal pumpsare unretichle displacement pumps must be installed for this

A. C. Vunniones.

Cantrilugale may how-ever be installed for the low-level which has a lift of

A. O. Vannianen.

I profer the well tried displacement numer for the intermediata level but foresee no scrious objection to contribuding of the nodern type H.M. Whasforn

9-10-1919.

This must be expected in the fature in dry years. H. M. Wielmour n-10-191n.

Doubtlass. But this is for the dim jubus: 0/10/1919

Now as regards the intermediate and low level zones I appreciate Mr. Hoey's very clover arrangement of pumps and motors all of which can be arranged to work either in series or in parallel and to pump into either the intermediate or low level reservoirs but when all is said and done he provides six pumps and three motors and thus gives only 50 per cent, standby. He has arranged this with the laudable intention of saving money but he does not appreciate that by providing four pumps and four motors he can give 100 per cent, standby at an extra cost including extra motor and switchgear of only Rs. 3,000. I feel-almost sorry to upset his very ingenious arrangements but I think it best to do so in the interests of the scheme.

The total excess being Rs. 29,638 plus Rs. 3,000 ==Rs. 32,638

Rs. 49,210 (see page Or adding fees, etc. The storage at each level is more than is absolutely necessary and this makes the scheme doubly certain of aucoess.

If the springs fail to give the necessary supply they can always be supplemented by a chlorinated supply from the lake and it is unnecessary, therefore, to bother about the spring supply.

There is very little more to be said about the scheme which is an excellent one in every respect but there remains the question regarding the harnessing of the springs proposed by Mr. West.

If in later years, the power is found, insufficient these aprings can easily be harnessed and will form a valuable supplement to the lake supply. The flow in the Ballia ravine can also be dultized. Extra pipe lines and peiton wheels will however be necessary and the matter may be allowed to rest for the present.

I am convinced, as I have said before, that the regulation of the sluices at the Tall Tal end of the lake, is not done efficiently and that a great deal of waste occurs in the flushing of the street drains. It is essential, therefore, that the regulation should be taken over by the resident Electrical Engineer. This is, to my mind, a very important point.

With those remarks I pass the scheme.

The 8th Soptember, 1919.

A. C. VERRIERES, C.I.E., Sanitary Engineer to Government, United Provinces.

It is not clear what specification is assumed for the various structures. The local divisional specification should be adopted with any necessary modifications to suit special needs.

H. M. WILLMOTT.

The 9th October, 1919.

becomen entirely, i.e., by the future remaining enginone who must be an all round man with special electrical training. H. M. Williagerz. 9-10-1919.

PARTICULARS OF PROJECT.

System, Alternating, Three Phase, Eifty Cycles,

Power factor assumed

0.8,

High Tension Transmission at 3,300 volts.

Distribution at 380 volts.

Average length of Transmission 2.2 miles.

Total length of Distribution Lines 15.34 miles.

Maximum foad anticipated in near future 300 K. W.

Number of sets, three, each of 150 K. W. with self-contained exciters 750 r. p. m., 3,300 volts, and direct coupled to Pelton wheels 272 B. H. P. with governors, combined jet deflectors and needle valves.

ij	Effortive head o	of supply	1,400	feet	with	200 of	t. p.	m. for	penk	ioad
	11. 3 1. 1									7 04 496

U	faits delivered per annum	*111	2 9 #	7,04,486	
-C	apital cost of Electric supply		Rs.	9,76,622	
\mathcal{H}	luming Expenses per annum	***	Rs.	1,12,174	
. 17	Stimated Revenue per annum		Rs.	1,83,311	
C	lost per unit delivered		***	2.55	annas
C	apital cost of Water Supply Imp	rovements	Its.	1,32,807	24.72
	opulation served			22,000	
1	Samply 15 gallons per head per day	y was			
	tunning lexpenses per annum	***	1	Rs. 60,240	
	list per 1,000 gallons pumped			13.9	annas
. 1 11	어느 그래는 이 아들의 생활이 없는 그는 그래요? 그림은	化化氯甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲	Profit Pakeling Co.	ALSO HELD TO SEE THE	

G. McC. HOEY,

Executive Engineer, 1st Sanitary Division,

The 20th July, 1919.

Saharanpur.

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G. McC. HOEY,

Executive Engineer, 1st Sanitary Division, Saharanpur.

The 29th July, 1919.

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REPORT.

Necessity of Royision.

The former estimate has been found inadequate in three important respects, viz. —

- (a) Power Allowances.
- (b) Supply of Spring Water.
- (c) Rates for Work.

In the first place to ascertain what kind of a load line we are to expect, a count has been taken of all likely consumers inside Municipal limits, a schedule of requirements has been drawn out both for the summer and winter loads and the resulting load lines plotted.

The estimated load lines have been designed to cover the severest demands likely to occur, and the average output will in all probability not reach two-thirds the consumption shown.

2. The calculated loads include a liberal allowance for lighting and water supply, pumping and certain provision is made for cooking and heating units.

During a year of drought the lighting and pumping load alone may tax the available water resources to their limits.

During normal years, however, a certain amount of power will be available for heating and cooking and provided it is clearly understood that such a supply may have to be cut off in a dry season, no harm can happen by encouraging the demand.

The calculated maximum summer load exhibits a demand of 2,927 units per day delivered at consumers terminals, a peak of 262 K. W. and an average load throughout the day of 122 K. W.

The winter load line, which like the summer load, has been calculated to cover severest conditions of demand, will require 1,525 units per day delivered, and a peak of 112 K. W. throughout the day.

8. The calculated load is a reasonable expectation of what the demand may develop to in the course of four or five years and the power of the generating sats is based on it.

Allowing for transformer, transmission and distribution losses, a peak load of 262 K. W. at consumers terminals will not fall far short of 300 K. W. at the power station bus bars.

The Mussoone load line of maximum severity, a plotting of which is attached below, shows a speak of 330 K. W. measured at generator terminals for lighting alone. This load line is analogous to the load to be met in Nami Tal. The 300 K. W. peak allowed for Nami Tal seems therefore to be a reasonable anticipation, for there are 450 consumers in Mussoone (including schools, solleges, hospitals and hotels) against 375 at Nami Tal, the latter, being more compactly placed and the average transmission shorter.

Power Requirements.

An analogous Mussooria lond. A park load of 110 K. W., it should be stated, way anticipated in the former essimate.

A load of 300 K.W. can be most officiently mot by three sets each capable of 150 K.W. at normal full load. Usually two sets will work together, the third acting as asnully stand-by.

- 4. The power pipe line must be capable of serving two such sold running together at normal full lead, and such a pipe line, it will be seen from the endeulations below, is expable of serving one set at a time under test at 25 per cent, or even greater overload.
- To comble as stone as possible on estimate of the requirements in water to be framed, the efficiency curves of a 150 K. W. alternator and a suitable Polton wheel have been plotted and the resultant over all efficiencies for all variations in lead obtained.

Transformer and line losses have been allowed at a uniform rate of 10 per cont. to save complications, which approximation will not enter approximation will not enter approximation for in the result.

From this curve the cubic feet of water required per minute for a given had and a given load can be calculated with refurable accuracy.

To the supply from the springs is adopted as the main source, the working head on the Pelton wheels will be about 950 from allowing for losses in the pipe line and jets.

To meet the daily requirements during severest demand about 206,340 cubic feet are required, at a head of 950 lights.

The flow varying from 20% cubic fact per minute at maximm to 67 cubic fact per minute at minimum load and showing an average throughout the 24 hours of 152 cubic fact per minute.

7. If the supply of 560 g. p. m. (=80.6 cubic feet p. m.) as stated in the former estimate was available from the springs as a minimum, we should be of abort of \$246 eatin feet parametre on an average.

Writer had occasion to inspect the springs during office gauging speciations several times, between 20th May, 1919 and lat June, 1919, after a fairly dry season.

The supply from the springs has in some measure been over springs that it will be unsafe to recken on more than the following supply which has been gaugest with leave-sine oil time and a stop watch:—

Corre France 220

in in the second of the Secon

This flow of itself closs not justify the springs being made the basis of the power supply to Bain Tal and focuses outside he had to the lake .

Requirements in Water for Power phrometer.

Adoquacy of Spring supply.

e en un el

Other reasons for discarding the springs as the fondamental supply.

8. Besides their inadequacy there are other reasons why the springs should not be relied upon as the main supply for power.

The Coolie Dhara spring from which most of the supply will be derived is situated on the face of a steep and disintegrated hillside; very costly revetment masonry will be required to support the pipe line and even with this it may not be possible to avoid break-down in slips.

Again if the springs are to be of use for any but small loads at the power station, costly storage arrangements will be necessary at the headworks.

A considerable portion of the Sepahi Dhara water is taken up for irrigation and a flour mill and compensation of no negligible amount will have to be paid if this spring is taken up for power supply.

Further-more in dealing with the lake as a source we have fairly reliable data in rainfall and run-off, on which to base our calculations.

Such does not exist in the case of the springs, the discharge of which may very without assignable reason or may be affected by earth tremors reducing the flow, or causing a change of position of the springs.

9. For these reasons this project has been drawn out with the lake supply as basis.

It is possible that, at a future stage in the development of the electric supply, these aprings may be found valuable to supplement the lake supply, so also might the flow in the Ballia ravine, roughly estimated at between three and four cusces with an available head of 500 feet.

If efficiency is to receive attention separate Petton wheels will be required for the several heads and flows.

No astempt is made in this project to combine the spring supply with the lake supply, for double-purpose pipe lines and wheels are more likely to lose than to gain in edicioncy.

In order that reliable records of the springs may be available in future years when the demand may have developed beyond the capacity available in the lake, steps should now the taken to provide permanent massary pointcoks, weirs and automatic flow recorders.

The cost of this work will not be great and the information gained will be most valuable when the time comes for expansion.

A similar armagement should also be provided at about contour R. L. 5,200 in the Ballia raving, which even in a season of severe drought will apparently, yield 200 K. W. as a telegrapiant.

- Northwance is made in this estimate for such work.

It is a matter for regret that such hydrographs are true available for had they existed it is unlikely that the springs would ever have been proposed, as a basis for the supply.

10. For the lake supply 3,500 feet extra of power pape line will be required and a static head of about 460 feet extra a available.

Lake supply adopted as busis.

Possible supplementary supplies.

Necessity for recording Nydrographs of Springs.

Lake supply

The calculations given below show that the total effective head from the lake will be 1,400 feet against 950 from the eprings, the quantity of water required from the latter can therefore be reduced in the ratio 950/1400 in the case of the take capply. The pressure mains need only be designed to allow of a flow of 201 c.ft. p. m. instead of 295 a.ft. p. in.

Two to-inch mains will pass this supply (1,255 g. p. m.) to tenfo velocity. The total quantity of water required per day of severest automer domaind will be 140.100 off, instead of 206,340 e.ft. The supply per day of severest winter load is edicitable to be 53,700 c.ft.

11. An examination of all the rainfull records available shows that we may safely count on three manules of the year when the rainfull and spring supply will much more than belong the power requirements.

Also an inspection of these records shows that the yearly disclouds over the lake weir greatly exceeds the total annual requirements for power purposes, 55 million cubic feet being the innimum total discharge enorded (1,894).

Let us assume that the three months period, say from 15th July to the 15th October, will even in the driest years require in storage; water for power during the remaining period of the year will require either complete or partial shorage according to the rainfall.

Reckening the period November 1st till March 31st as under "winter" load conditions and the remainder of the year as under "summer" load, we obtain a period of nine months during which time, in abhormally dry years no addition to the take may take place from rainfall, and for which period therefore, a sufficient quantity of water must be stored in the lake.

. 12. Calculations given below show that about 18 million cubic feet of water will be required to tide the electric supply over this period of nine months.

The records show that during the last swenty-three seasons on one or two occasions no appreciable addition took place during this period by rainfull to the lake (e.g., 1912-19 and 1902-3).

To guard against such a contingency in the future a storage of 13 million cubic feet thus be provided.

The area of lake surface at about R. L. 0.320.0 is 5.25 million square feet, a depth of 3.44 feet will therefore be required.

Level during the winter and dry season and the rainfull over this interval, respects have been tabulated shewing the dates immediately after end of rains when the slaices were closed and when the lake levels rose to a maximum, and the dates in the following het wenther when the take levels but following het wenther when the take levels but following and the dates in the following het wenther when the take levels but following and following the second se

The minial request over this period have also been thirlated

So Imprecion of this (able shows that no fixed relation can be established by tween the drop in lake levels and the establish Storage required in take.

Requirem his fer Pawer, signicen million and is fost per annum

Allowanees for lankage and evaporation.

It is true that the minimum recorded fall in lake levels occurred in the season 1906-7, and amounted to 1.30 feet with the maximum recorded rainfall 29.68 inches.

The minimum recorded rainfall does not however synchronise with the greatest fall in lake levels, vide season 1912-13 when the rainfall was 1.75 inches and the fall in lake 2.70 feet.

The maximum recorded fall in lake levels took place in 1915-16 and was 3.8 feet with a rainfall in the interval of 6.97 inches.

14. The irregular falls in lake surface cannot be explained by percolation and evaporation losses which do not vary much from season to season.

The irregular behaviour of surface levels is in all prebability due to the draw off at Talli Tal, for flushing and other purposes and the manner in which the eluices are staunched.

The several outlet sluice valves there are apparently opened and shut at the taste and fancy of the jamadars in charge. On several occasions writer has noticed excessive quantities of water being used for flushing drains.

It will be an important duty of the Electric Engineer to see that no avoidable waste takes place from the lake.

15. If we accept the season 1912-13 as the severest over likely to occur a fall of 2.7 feet in 199 days or 0.165 inches per day is the greatest rate of fall to be anticipated.

An allowance to cover leakage and evaporation of 3.75 equivalent to over nine months at above rate would appear sufficient.

Add to this the 3.4 feet of storage required for power purposes and we obtain a total maximum variation in lake levels of 7.15 feet which might be encountered in a year of exceptional drought.

16. The lake levels have on occasion fallen as low as 1.0 feet and weir all level is 2.75 on the gauge, so that a fluctuation of 4.75 feet takes place under present circumstances.

A further 2.4 feet scops must be arranged for

A further 2 feet or 2' 6" is possible by remodelling the weir at Talli Tall and rebuilding the Post Office and station staff office there as well as raising parts of the roads round the lake. This will add appreciably to the cost of the scheme.

To initiate the supply, however, it is proposed to lay the intake, from lake at such a level that the maximum variation in lake level will be available under existing still level (1, c., 3.75 of lake gauge or R. L. 6358-66).

The invert of intake will be laid at R. L. 5344.0.

In arbanquent years when the supply has become remunerative and extensions found necessary the question of raising the lake levels will conditions come under discussion and be decided on its merits as an alternative to harnessing the springs.

Variation in level of lake probable in dry years, 8.78 feet.

Maximura anticipated variation in lake llevels on V-10 feet The whole supply of eighteen million cubic feet per annum will not be immediately required as it may be five or six years before the demand developes to the degree anticipated in calculations of demand.

17. To provent the possible choking of intake by weeds washed up from lake bottom the vicinity of the weir will be avoided for the site of intake.

A suitable site has been chosen at a point a little north of the Patwaduuga inlet chamber on the South Mall.

A detritus pit and scrooning chamber will be built close to the South Mall as shown on plains attached herewith.

18. From the catch-pit chamber the pipes will be carried in deep cutting along the main bazar road for a few chains in a uniform grade and below this will be laid with 36 inches covering under road level past the police station and the Rohilkhand and Kumaun Railway Office compound, across the cart-road and along the bridle path, then through the Gurkha Barracks compound, across the zigzags of the bridle path on to the Sipahi Dhara site.

From this point the alignment chosen in the former project will be adhered to, as far as the proposed site for the power stations.

The botal length of power pipe line required has been measured as 6,800 feet.

Oramps to prevent creep and thrust blocks have been provided whenever necessary and a suitable number of expansion joints have been provided at the required intervals.

The "Albion" patent joints used on the Mussocrie water supply pipe lines have given some little trouble by weakness at the shoulders of the Hanges.

It is proposed to use the "Vulgan" patent joints in this work. This joint is virtually a spigot and socket joint, lead caulked, with split ring flanges bolted over it, bearing on the packing and on the socket upset.

Expansion joints are arranged by the insertion of a plain alcove pipe with double scaketed pipes.

19. Both 10 inch pipes will deliver into a 15 inch steel pressure main laid parallel to the power station building through angle branches accurely demped to enecially designed thrust blocks.

From the 15 inch main three 10 inch pipes will lead sluice valves fitted with bye-passes to the Pelton wheel fots

For hand governing purposes special 10 inch volves off through will also be provided inside the power station in tage of emergency.

A scour pipe with valve and an automatic pressure relicitative have been provided with the necessary discharge channel.

A suitable number of air valves have been provided on the Power Ripe Lines; not for the purpose of obviating airtocks (for the Pipe Line will be hid without crests or dips) but as our reliefs during filling operations. Position of Intake.

Aligument of power pipe

Power pipe line joints.

Power pipe il ne details.

Hatch hoxes will not be provided as these have proved a source of weakness at Mussoorie.

If scraping should ever be found necessary the sleeve pipe expansion joints can easily be removed.

Spare pieces for all the more important cast steel specials will be provided as this is essential for continuity of supply.

Power station buildings.

20. The power station building will occupy the same site as chosen in the former proposals.

The site has been inspected both by the Sanitary Engineer and the Superinterding Engineer, 2nd Circle, and as far as it is possible to judge is not in any danger from land slips or flooding.

A short length of frigation gul will have to be dismantled and diverted and some revetment walling will be required. A suitable amount has been allowed in this estimate for land compensation.

The width of the station floor will be increased from 25 feet to 30 feet as the former width is too small to allow of a unit being dismantled with ease. The Mussoorie power station floor is 30 feet wide and the station building proposed in this estimate is substantially the same in details.

The tail race channel will be provided with a weir and approach channel with a liquid level recorder so that a continuous record may be kept of the water used.

The workshop, store and office will be situated at the south end of the building while extension towards the north will be possible without interference with the existing plant. The staff quarters, Inspection Bungalow and outhouses are identical with those proposed in the former estimate.

21. As before stated three 150 K.W. sets will be provided with direct coupled Pelton wheel and oil pressure governors. The Pelton wheels will be chosen mainly on a score of efficiency as economy in water is of importance.

To develop the full power of the generators at 25 per cent, overload wheels of 272 B H.B. will be required, for which a flow of about 130 c.ft, per minute, per set will be necessary. The governors will actuate jet deflectors with combined slow motion needle valves as such an arrangement is necessary if sensitive governing is to go hand in band with economy in water and for avoidance of pressure surger in the power mains.

22. The alternators will be of the three phase type, fifty periods 3,300 volts, with self-contained excitors suitable for direct coupling to the Pelton wheels described above.

The alternators are specified to be suitable for the load with a power factor of 0.8, for this is a suitable allowance taking the nature of the load into consideration.

The switch beard will consist of three generator panels, one station auxiliary panel, one feeder panel with auto-trip gear, one spate panel, and one Tirrel Regulator panel.

The Titrel Regulator is essential if voltage fluctuations and consequent flickering of lights is to be avoided:

Power station equipment.

The connections from generators and excitors will be water proof leaded and armoured cable laid in special cable treaches to the switch board gallery, between the switches and the overhead line all connections will be of bare copper of sufficient gauge for rigidity, secured on porcelain insulators as far as possible.

The station will be lighted by ten 150 C. P. lamps, four of which will be on the exciter circuit and the remainder on the auxiliary transformer circuit.

The out-take for the overhead transmission will be from the tower over switch gallery.

The necessary Isenthal lightning arrestors with earth connections will be housed in the tower over switch gallery.

An alternative out-take for a second line (which is not included in these proposale) would be through the gable of Power Station Building.

28. A single H. T. transmission line is provided in this estimate on the same alignment chosen for the former project. A second line on an alternative alignment might be found advisable at some future date. Such has not been included in this estimate mainly on a score of cost.

Transmission pressure will be at 3,300 volts to the three sub-stations at the positions chosen in the former project.

The sub-station buildings will each consist of two inlet and outlet towers $8' \times 8'$ capable of housing Isenthal Arrestors, one transformer chamber $14' \times 12'$ and a chaukidar's but $12' \times 10'$.

Westinghouse oil cooled transformers have been specified.

Telephone lines connecting up the various sub-stations with the Power House and the Electric Engineer's bungalow are essential, and as these will be constructed by the Telegraph Department an allowance only for the rest of connections is made in the running expenses.

24. The L. T. Distribution will be at a pressure of 380 volts between phases, i.e., 221 volts between a phase and neutral.

The wires will be carried vertically one above the others.

Where the H. T. transmission is along a route of distribution both systems will be carried on the same poles to save in cost, but the equilateral spacing of the H. T. wires will be preserved everywhere.

Over both H. T. and L. W. lines an earthed wire will be served for lightning protection, which will be dipped on to the mile serve.

Manusemann steel tubular poles or Hamilton built up poles will-be used whichever prove the cheaper,

Adequate allowance has been made for guying and strutting.

Diamings are attached showing the arrangements pro-

Altowance has been made for bradle guarding wherever telegraph of telephone lines are arosed and also at importelegraph of telephone lines are arosed and also at important road arosalage on the H. T. lines. Fligh tension transmission. 0.800 volts.

Buk-stations and equip-

Distribution 880 volts.

The smallest section of copper used is S. W. G. no. 6.

Calculations are attached of the weight of copper required, the sections being designed to admit of maximum current flow within the legal 5 per cent, voltage drop.

An allowance of Rs. 3,000 has been made for compensation for tree cutting. Experience in Dehra Dun shows that such an amount may be required.

Capital required Hs. 9,76,622. 25.

25. The total capital cost of the work is estimated at present rates to amount to Rs. 9,76,622 including fees and contingencies.

The rates allowed in this estimate are intended to cover present conditions and are as accurate as it is possible to make them.

The prices of manufactured material are as yet by no means steady and a tendency to rise is noticed awing to increasing demand in Europe. It is thought that the contingencies item allowed at 10 per cent, in this estimate will cover all unforeseen items and possible rises in rates.

In estimates of this sort where a very heavy percentage of the running costs consists of sinking fund and interest on the capital cost it is a matter of prime importance not to underestimate the capital required.

If the supply is to become self-supporting and at an early date no part of the work can be left out with a view to reducing the capital cost. The governing item in this estimate is the power pipe line, and the generating and transmission plant provided is all required to develop the full load, none of it can be omitted if the auticipated demand is to be met or the estimated revenue strained.

26. An estimate of running expenses under heads of sinking fund and interest, staff, material and repairs charges has been drawn up and will amount to about Rs. 1,12,174 per annum.

One Electric Engineer on Rs. 800 per measure will be capable of taking charge of the supply.

Conveyance allowance at Rs. 50 per measure and house allowance at Rs. 100 per measure have also been provided for him in the staff charges.

The Electric Engineer will also in the ordinary course of his duties take charge of the Water Supply and an allowance of Rs. 100 per mensem for this has been made in the running costs of the Water Supply.

As the success of the supply will in no small measure depend on the Engineer in charge an adequate salary must not be gradged a suitable man.

The suggested pay is not fixed at a minimum but should a suitable man be available at a lower rate there may be a saving on this item.

It is estimated that over 700,000 units will be generated per annum when the supply is developed and the cost per unit inclusive of all charges works out to 2.55 annas.

27. Charging pumping units and public lighting units at 3 annas each, i.e., alightly above cost price, private consumption at 6 annas per unit and a small private demand for heating and socking at 2 annas per unit, arevenue of over Rs. 1,80,000 will be attainable with the supply fully

Running oxpenses Rs. 1,13,174 per sanum.

Yearly, demand over 700,000 units delivered.

Royanyo attainabla

developed. Heating and cooking units are charged as 2 annas which is less than cost price, to enable the supply to compete with wood and charcoal.

The demand is purposely fixed low as it may not be possible to meet it in years of drought.

It should be noted that as the lighting and pumping charges will merely be book transfers the supply is dependent on private consumption for any profit.

The cost to the Board for public lighting will amount to about Rs. 18,430 per annum and a sum of Rs. 40,650 has been debited to the running expenses of Water Supply for pumping units.

It will not be difficult to obtain a revenue of Rs. 1,10,000 for private consumption as over 2,02,000 units per annum will be required at a moderate estimate when the supply is fully developed.

Rupees 1,49,028 was the income obtained for lighting by the Mussocrie Board in 1918-19.

About 2,850 tins of kerosine oil per mensem is the present consumption for Naini Tal. The population, therefore, pay about Rs. 90,000 for the present indifferent lighting, private and public.

28. With the supply fully developed there should be little difficulty in paying all charges and showing an annual profit of over Rs. 50,000 as far as the Electric Supply is concerned.

WATER SUPPLY ALTERATIONS AND EXTENSIONS.

29. For purposes of estimating the capital and running costs the Water Supply arrangements will be treated separately.

In view of the drainage works contemplated and the inadequacy of the present water supply an allowance of fifteen gallons per head of the summer population (22,000) will be made.

This supply is about as much as the present springs will afford in dry seasons and any further increase would involve the use of chlorinated water pumped from the lake.

It is not anticipated that such a course will be necessary in the immediate future for the present supply only amount to five gallons per head of the population.

30. To save in power the area of supply has been divided into three zones, with populations, in summer of 5,500, 6,500, and 10,000; and pumping heads of 1,152 ft., 465 ft. and 260 ft. respectively.

The most efficient method of serving three zones will be by means of a high lift three throw plunger pump for the high zone, and centrifugal pumps for the intermediate and low zones. As the lift to the intermediate zone is practically double that to the low zone, two captuingal pumps suitable for the low zone when run in series will serve the intermediate zone.

To benefit in full by such an arrangement the hours of pumping will be so adjusted that the newer required for pumping to each tone is the same; the came size of motor star be treatfor all the sois.

Present consumption of kerosine oil.

Supply allowed: Fifteen gallons per head yer day.

Arrangomont of zones

Arrangement of pumps.

31. Two sets of motor driven plunger pumps for the high zone, and three sets of motors with multi-stage centrifugal pumps, one on each end of the motor, and an arrangement of valves so that the pumps in each set can either be used in series or parallel.

This allows of 100 per cent. standby power for the high zone and 50 per cent. standby power for the intermediate and low zones.

It is not proposed to dismantle or discard the existing steam plant which would bring in little return if sold, but the present plant will be kept for emergency use at any rate until the electric supply has been thoroughly tested and proven. So also will the steam pumps at the lake and the chlorinating plant be preserved for use in emergency.

32. Motors absorbing about 35 K. W. will be required and as the size is small compared with that of the generating sets induction type motors have been proposed. Allowance has also been made for the necessary transformer and switch gear and the disused filter house will be converted into a pumping station.

Additions and alterations will also be required to the existing rising mains to enable a supply to be pumped simultaneously to each of the three zones of supply.

To connect up the intermediate tanks at Cheena and Ayarpatta 844 and 420 yards respectively of 5 inch main will be required.

33. The low zone pilgrim tank is at present connected to the pumps by a 5 inch main which must be replaced by a 6 inch main if the anticipated 15 gallons per head is to be delivered as proposed.

This 5-inch main 260 yards in length will be lifted and relaid as part of the connections to the intermediate tanks.

It is not proposed to add any further storage capacity to the existing tanks as these in conjunction with the new rate of supply will be quite adequate for all demands in the immediate future.

34. The total estimated cost of the water supply alterations and additions will amount to Rs. 1,32,807 at present rates inclusive of contingencies at 10 per cent. and fees for preparation and construction.

The running expenses are estimated at Rs. 60,240 per annum including sinking fund and interest, staff, power materials and repairs charges.

Should the water supply amount to 15 gallons per head of the population the cost will be about 13.9 annas per thousand gallons.

23. The present water supply to Naint Tal amounts to less than live gallons per head and the cost to Rs. I. 61 per thousand gallons.

The water supply to Museconie amounts to 14.3 gailons per head per day and costs Rs. 1.08 per thousand gallons.

In this connection it should be remembered that the Municipal Board at present pay Rs. 23,014 per annula as sinking fund and interest on former leans and if this is

Alterations to existing

Capital required Rs. 1.92.807.

Running 6xp6nses Rs. 60,240.per.annum. added to the total running expenses of the new arrangements the cost per thousand gallons will amount to Rs. 1.2 at a consumption of 15 gallons per head.

36. As the supply will take three or four years to develop into a self-supporting concern, all income during this period being swallowed up in meeting the running expenses some further allowance must be made over the capital cost estimated to meet the losses of first and second year.

A sum equivalent to one year's running expenses would be sufficient.

The total capital then to be found for the project would be:-

그의 사이 된 사이를 하는 것이다.			Ro.
Electric Supply	. W +	电 设备	9,76,622
Water Supply	* * * * * * * * * * * * * * * * * * *	***	1,32,807
One year's running costs		** 8	1,72,414
			sotettische pischen
	otal		12,81,843

37. The cost of current is high relatively speaking and this is in part due to the high prices now ruling but mostly because of the small winter load.

A keen Engineer will overcome this by encourging industrial load during the slack season.

It will be economy during this period to sell current at 2 annas or even one anna per unit to encourage consumption for all such extra units sold help to increase the revenue.

There should be scope in Naini Tal for small saw mills, stone crushers, lime dis-integrators and heating purposes over and above the allowances estimated:

38. On the principle that Municipal Boards who help themselves are also worthy of help from Government, a grant of half the capital required might be given provided the Board agree to raise the other half.

Such help would also be justified as specially difficult direntences exist at Nami Tal where the supply is dependent for success on the summer lead; also because the summer headquarters are at Nami Tal. Government will beselfs much by the supply.

39. A grant of balf the capital required would have considerable effect on the running expenses which consist mainly of surking fund and interest charges at 8.72 per cents on the capital.

This is a very beavy charge and is due to the short term of the loan.

The life of the greater part of the plant and buildings in much more than twenty years and corporations in the British Islantic never expected to pay sinking foud at such teavy rates. A pornel period for such supplies would be about 15 to 40 years.

Proposals for financing the supply.

Possibility of winter in-

Grounds for giving a grant towards she capital required. Effect of a grant of half the capital required.

40. If a grant of half the capital required (Rs. 5,54,715) is made the following reduced figures for running costs would be expected:—

		•		Electric supply.	Water supply.
ta da sur y Miller T				Rs.	Rs.
Sinking fund	and interest	,		42,571	5,789
Staff			859	18,588	4,992
Materials	4 6 		. 06 9	1,588	750
Repairs			488	6,656	2,270
Power				*#*	25,187
Rent			• • •	200	***
i Ngarata	Total			69,603	38,988
Control of the Control of the				Propagation and the second sec	Appelations in the legis

The cost of power would be 1.58 annas per unit and the cost of water 8.96 annas per thousand gallons. Inclusive of present sinking fund and interest charges the cost of water would be 13.9 annas per thousand gallons.

41. I wish to acknowledge the help given me in the preparation of this estimate by Mr. A. C. Coubrough of Messrs. Mather and Platt, who has kindly checked the prices of material to be imported; Mr. W. Bell, Electric Engineer, for valuable suggestions and the benefit of his experience in Mussoorie and Dehra Dun, and Mr. S. C. Edgar, District Engineer, Naini Tal, for the use of his records.

The 29th July, 1919.

G. McC. HOEY,

Executive Engineer, 1st Sanitary Division, Saharanpur.

FINAL ABSTRACT.

			•		Rs.	
Capital Cos				337 - 4 % 0	9,76,622	٠
Supply		and Aire	rations to	Water	1,32,807	
g contract	` ;				Boatlanterna transferiencies de ve	
			Total	P Q 0	11,09,429	
and the second second					frankosamonikasmutarzaristas if	
Running E	_	Electric & Water	Supply per a ditto	- 1	1,12,174	
					British atualministratish b	
			Total	• • •	1,72,414	per annum.

The 29th July, 1919.

G. McC. HOEY,

Executive Engineer, 1st Sanitary Division,

Saharanpur.

HYDRO-ELECTRIC SUPPLY.

ABSTRACT OF COST.

				Rs.
1.	Power Station Buildings		Á®ara.	56,713
2.	Ditto Equipment	041	9 4 4	1,55,400
3.	Power Pipe Lines	•••	***	2,15,025
4.	Transmission and Distribution	•••	9 H 4	2,77,761
5.	Sub-station Buildings		**************************************	10,842
б.	Ditto Equipment			66,420
		Total		7,82,161
7.	Contingencies at 10 per cent.			78,216
		Total		8,60,377
8.	Sanitary Engineer's fees for pro	paration and	exocu-	Specific and company of the Company livings.
	tion at 12 per cont			1,03,245
		Total	. Lini	9,63,622
'9. 1 0.	Land Compensation Compensation for tree cutting		niga.	10,000
	Grand Company of the Grand	nd Total	414.6	9,76,622
ı. ən	₩	a w	e aouv	

The 20th July 1919

G. McC. HOEY,

Eccutive Engineer, 1st Sanitary Division,

Saharanpur.

ESTIMATE OF RUNNING EXPENSES.

	70	
T. Charles II and an I Taken	Rs.	
1. Sinking Fund and Interest on a capital of expenditure of Rs. 9,76,622 at Rs. 6 per	, , , , , , , , , , , , , , , , , , ,	
cent. per annum, compound interest		
repayable in twenty years, 8.718 ×	and the factor of the second o	America Alberta
9,766.22	85,142	A STATE OF THE STA
2. Staff		
One Electrical Engineer at Rs. 800 per		
mensem, Rs. 100 horse allowance,	one sir us	
Rs. 50 con veyance allowance	950	
One Power Station assistant at Rs. 200 per mensem consolidated	200	en en en en en en en en en en en en en e
Three oilers at Rs. 15	45	en en en en en en en en en en en en en e
One cleaner at Rs. 12	12	
One fitter at Rs. 50	50	
One head linesman at Rs. 50	50	
reflective and the compression of the first and the compression of the	7 July 2007	
Four linesmen at Rs. 15 If he as sub-station attendants at Rs. 15	60	
One chankidar at Rs. 9	45 9	
Two heldars at Rs. 8	16	
One mate at Rs. 10	10	
One peop at Rs. 8	8	
One clerk at Rs. 50	50	
One storekeeper at Rs. 35	35	
One sweeper at Rs. 9	9	and the second
	KRANTON MANAGANIA	
Total	1,549	per mensem
	documentario esta se della	Rs. 18,588 per
		annum.
Muterials— —		
		Per annum.
The second secon		Re.
Lubricant waste and transformer oil of Ra. 2 units generated	her 1400	1,408
Stationery and printing charges at Rs. 15 per 1	nensem	
		phinalkonomiass
: Cotal :		. 1,589.
ermañ		***************************************
Repairs—		
Buildings at 15 per cent, on Rs. 25,000.	. 1. 1. 1	₁₀ 525
Machinery at 3 per cents on Rs. 1,50,000		. 4,500
Over head lines at 1/5 per cent, on Rs. 2,78,000) .	, 35G
Power pipe lines at } per cent, on Rs. 2.15,025	. 1.1 . 1.1	\$ 1,075°
188 198 198 198 198 198 198 198 198 198		Principle :
40t6L		.= 6,656
Rent for telephone line and connections	*	200

6. Summary of running expenses-

				Per anum,
1. Sinking fund and in	terest		gsa-	Rs.
2. Staff		# 9 B	1	. 85,142
3. Materials	240	f 9 u	* .	18,588
4. Repairs		***		,,,,,,,,
5. Ront		*1*	***	,
		***		200
773		Total	ស្ថាខ្	1,12,174
Notal units delivered per	annum	* * *	891	7,04,436
Cost per unit	- Common of Start annual and Starting of S		# • •	2.55 annas
WATER SU	PPLY ARI	ANGEMENT	'S.	
Estimate of I. Sinking fund and interest Rs. 1,32,807 at 6 per cents.	of running st charge	g copenses. s on a ce	ipital of	$\mathbf{R}\mathbf{s}_{\bullet}$
in twenty years = per an 2. Staff —	num 1328	×8.718==		11,578
				Per annum,
Allowance to Electrical En sion at Rs. 100	giveer fo	r general	supervi-	Ra,
Waterworks Superintenden	t at Rs. 1.	50	2. 6 6 6	100 150
One head mistri		8 4 4 5 4 5 4 5 4 5 4 5 4 5 4 5 4 5 4 5	A personal property and the	60
One oiler	Territoria. Pari Maria da In			10
One cleaner	• • •	요리 함께 하시고 했는데 그는 그를 내놓았습니다. #		12
One chankidar				8
One pipe line inspector				60
One sweeper			•	10
		Total	\$4. ************************************	416 p. m.
Power for pumping-			=4,99	2 per annum.
255,060 units at 2.55 annas Materials—		**************************************		0,650 per annum.
Lubricants and waste at Rs. 2 Stationery, printing and wate	per 1,000 r fest cha	units consu rges at Rs.	med 20	510 240
		Potal		750
Repairs— Emildings at 11 per cent, on R	is. 18 mn	and the second		(Photography)
parcinnery at 3 per cent. on Re	s, 50,000	C. E. P.	1.00	270 500
Pipe lines say		. We		500 500
F. J. St. Communication of the	1	ohul	(Pantalija,	
		enting	Onesias	270

Summary-

			Per annum. Rs.
1.	Sinking fund and interest		11,578
2,	Staff charges	440	4,992
3.	Power charges	*** · · · · · · · · · · · · · · · · · ·	40,650
4. 5.	Repairs Materials		2,270
	Tol		60,240

Number of gallons pumped = $(120 \times \frac{1}{2} + 182) \times 22,000 \times 15$

= 69.63 million.

Cost per 1,000 gallons = 13.9 annas.

If sinking fund and interest on previous loan (Rs. 23,014) is added, total annual charges = Rs. 83,254.

Cost of water per 1,000 gallons = 1.2 = 19.2 annas.

The 29th July, 1919.

G. McC. HOEY,

Executive Engineer, 1st Sanitary Division,

Saharanpur.

STATEMENT OF REVENUE ANTICIPATED.

7		ŦŢ.
1	Public lighting-	
Red .	98,550 units at 3.0 annas 18,478	ţ
2.	Private lighting and other purposes-	igne Suit
	292,626 units at 6 annas 1,09,734	b
3.	Power for pumping—	
Note of	255,060 units at 3.0 annas 47,824	ļ
4	Power for heating and cooking—	ha Geol
	58,200 units at 2 annas 7,275	í
14-0		À
den sekiji	Total 1,83,31.	1

The 29th July, 1919.

G. McC. HOEY,

Executive Engineer, 1st Sanitary Division,

Saharanpur.

ABSTRACT OF ESTIMATED DEMAND IN UNITS DER ANNUM.

The second secon	Ç	dumin	10 1.		Wint	er.	
Programme Company Comp	Units per day.	Days per annum.	Total units.	Units per day	Days per annum	Total units.	Units per annum.
1 Public lighting 2. Private Bungalows Bazar shops Special buildings 3. Power for numpling 4. Power for heating and cooking. Total units per sumum	Jan 1	183 183 213 120 60	على المستوار	40 40 40 60	182 182 151 151 182	5,460	$ \begin{array}{c} 80.114 \\ 16.440 \\ 196.072 \end{array} $ 292.626

SCHEDULE OF ALLOWANCE IN UNITS FOR CONSUMERS PER DAY DURING SUMMER.

1.	Street Lighting-		- 5		Unite
4.	8		•		per day
	For 6 hours 1 mile at 2 k. w.	k ku	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		12
	, 0 ., 1 , ., I ,,	¥#\$ " " "			6
					Ministra
			Total		18
cy.	Demand and the last				it is the same
7.	Bungalow lighting.				
	Ist class for 4 hours at 1.25 k 2nd ditto 0.65			1, 114	2.50
	0-1	" × 0.6	P+4	• • •	1.58
8.	Bazar shops lighting.	"×0.6	4 # 6	4 6 1	1.00
	For Malli Tal and Talli Wat	1			
	For Malli Tal and Talli Tal		ars at 20 k.	P	: :
4.		nnivental Com A 1	####	(30.00
	× 0.6	hindrich for o we	ours at 148]	t. W.	
Б.	Power for pumping			900	888
D,	theating and cooking 250 at 2 h	ours of Ask le	AV		1,170
Eet	imate of demand in units per day	during summ	(1) P*	# # # *	300
N. A. M	Itom. Quanti	ty. Units allor	ved Per.	m	العسال
tij dit s Kare	But the American Street	for per de		1972	day.
	Street lighting 15	18	mile.		uny. 0.00
2.	Bungalowe . 1st class 30	2.5		100	5.00
	2nd , 130	1.56			2 80
	, 3rd , 120	1.00		100	2.00
3.	Bazar shops lighting			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.00
4. er	Special buildings		ety in it with a temperature of	13.34	3.00
Մ. 6.	Power for pumping			and the following of the	1170
W.	Heating and cooking 30 at 2 hour	re at 1 k. w		province in	60
	ESTIMATE OF FOWER BI	QUIRED FOR LA	GRTING.		
(I)]	crivate bungalows				
	I. 1st class bringalows 30 ac	1.25 k, w	y a tao il disconti di di Mari Mario e Carlo (1989)	87 · K	0 k, w.
		σ•65",,	(Might Might in the many principles)	ويساح ووروجهم	Tray the part of his one of
	이 이 12 나도 없다는 1120년에 대한 전에 된 전한 전환 기계 전환 기계 전략적인 환경 전략적인 경영이 되었다. 전략적인 전략적인 기계 기계 기계 기계 기계 기계 기계 기계 기계 기계 기계 기계 기계	11 × 10		84:5	. The Milester
				50.4	
		Total		***************************************	
ereke (15 h		4081		172.4	0 .,
Allor	wing a diversity factor of 0.75, ungalows would be say 120 be.			Name (Party)	
ite b	ungalows would be say 130 k. w.	nia norm bom	er required	for li	ghting
(TI)	Special buildings (private and pu	Mark T. Argentini da sara	Specificate (No. of the control of		
	mate		etailed esti-		
Allas	2. 水红花 2.4 H. 高 2.4 G. 2. 双音 在 1.5 P. 2.5 A. 2.4 P. 12 G. 2.5 P. 2.5 P. 2.5 P. 2.5 P. 2.5 P. 2.5 P. 2.5 P.		* 1111	146	k, w,
	ving a diversity factor of 0.50 as	10 includes shop	s and offices		
	which require light in the aftern Dotal power say	oon or early in	the evening		
rry.	For Walt ments of the land	in de la companya de la companya de la companya de la companya de la companya de la companya de la companya de La companya de la co	ri Pin	68	k/w, :
4 4 4 J	For Malli Tal and Talli Tal bagai	и	***	20	
autop	ving a diversity factor of 0.75 say	Z		Car Allesia	growing and
BH N	Marketine historia zieni	en desar communication			7
		er - com antigen an erikket afskalentist (f. 1982).	eman Experimental Service Service (Service Service)	9月7日 福州流行 阿尔德	W. FRIENDSHIPS AND THE STATES
	Total.	land for lighting	(i) Parini, is supply	gia	August Park
	19. 第20. 10. 10.10.10.10.10.10.10.10.10.10.10.10.10.1	land for Ughting Peak land say	化有效的 化铁铁铁铁矿 医多性皮肤 自己的		

Estimate of power required for street lighting	$\mathbf{g}_{m{\cdot}}$
Allowing 150 ft. interval between lamps,	the total number of
lamps required per mile is 35. Take.	15 miles of roads to
be provided for. Total number of lam	
Take 475—55 Watt lamps	26 k. w.
- 50-100 ditto	
Total power required for street lighting	31 "
Loads —	k load say 32 ,
Bungalow lighting Special buildings	130 k. w.
Bazar lighting	T_{i}^{i}
Dazar nguning	$1 ar{ extstyle extstyl$
회가 되었다고 말하는데 시간 편	Total 219
	Total 219 .,
Charles 1 Laborated	**************************************
Street lighting	32 k. w. for 6 hours.
Pumping W. S. 35 k. w. for 18 hours.	16 , difto.
35 . for 11	
35 , for 7 ,	
Government House Irrigation 15 k. w. for 8 l	
List of bungalows and other buildings ha	그렇지 않는데 그 아이들에게 되었는데 그렇지다. 그리고에 등 사용되었는데 없는 물로스 모든 말씀하다.
for 1917-18.	is been taken Hom Wassaufff.
The bungalows have been classed I, II, and	III on the basis of their gross
rual values.	
	Rs. Rs
lst class	%, 1,600 2,500
2nd	.,. 800 1,600
3rd .,	600
List of buildings to be provided with lighting-	以444. A. [19] (19] (19] [19] [19] [19] [19] [19] [19] [19] [
Special buildings Bungalows Ist class	48
bingalows ist class 2 2nd ,	80 130
g Brd , e.,	120
Estimate of power for connections.	The state of the s
1. Isi olass bungalows:—	average of the Committe
Total no. of lights 40 $\begin{pmatrix} 8-55 \text{ Watt lamps} \\ 16-32 \text{ ditto} \\ 16-17 \text{ ditto} \end{pmatrix}$	w. 440 Watts.
Total no. of fights av 2 fb - 82 ditto	
value de la companya de la companya de la companya de la companya de la companya de la companya de la companya Na la companya de la companya de la companya de la companya de la companya de la companya de la companya de la	1.224 k/·w.
	say 1°25
2. 2nd class bungelows:—	Park II A
, $\left\langle \begin{array}{ccc} 4-55 \ ext{Watt limps}, \\ 8-32 \end{array} \right\rangle$ differs	Fr. 220 Watts.
22 $\begin{pmatrix} 4-55 & \text{Watt lumps} \\ 8-32 & \text{ditto} \end{pmatrix}$ $\begin{pmatrix} 10-17 & \text{ditto} \end{pmatrix}$	256 170 -,
A TAN MADES	646 k. w.
344	'6LV "05
3. Srd class bungalows:	
$ \begin{array}{c} \begin{array}{c} 2-55 \text{ Want laterps} \\ 6-32 & \text{diffo} \\ -7-17 & \text{diffo} \end{array} \end{array} $	
の2000年には1900年には1900年には1900年に	
0-32 dimo	192 192

LIST OF PUBLIC AND PRIVATE BUILDINGS FOR WHICH SPECIAL ALLOWANCE HAS BEEN MADE.

	HAS BEE	N MADE.			
Number of				To	
assessment				Poy	
list 1917-18			4	-	ed for
20	All Saints Diocesan College	, set	6 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	5	k. w.
29-34	Belvedere including cottage and	d atubléa (Kaja of Ava)	2	17
47	Boys Diocesan school	* 10 *		3	*7*
48-50	Brook Hill (Nawab of Rampur)			2	3 p
54	Boat House. His Honour's		•••	\dots 2	11
55	Boat shed ditto.	9 N F	***	1	. 11
7 d	Crosthwaite Hospital	***	10 Jan 1984	5	29,
7.5	The Club		***	15	13
TOL	Departmental offices	147	e e e	, 2	K.P.
117	Exchange the (Messrs. Trevill	ion and Ch	urke)	1	1 1
118	Exchange Villas (Lala Shyam L			2	337.
187-140	Forest offices			1	71
151	Government House			15	· · · · · · · · · · · · · · · · · · ·
152		Public V	Vorks departs		
	baildings				
155-156	Grand Hotel including Cottage			1 6	**
159	Haining, the (Bank of Upper In	The many of the party of	en in the indicate the second		. 2×
160	Harmony Hall (Dr. S. S. Deasc		₹ € ⊈	(3)	19
187		9	***		29
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Kutchery Buildings	i Ac i tum .	00.1	2	75
198-200	Langham House (Ayarpatta Su		omee)	1	*Kara
-211	Married Quarters at Sleepy Hol		• • •	2	19
218	Metropole Hotel		i jaran erika da apa	1. Mar. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	37
228	Murray & Cos	6.4 P		D	79
237	Municipal market with its outh	ousos		1	er in
241	Mathew & Co	1 64		2	
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248	Newherry Lodge (Agent Messi				10 3 90 3 1 1
246	Norton Lodge Garden (Mu				15
259-260) 204-265)	Philander Smith College includ	ing Oak R	idge and colla	go } 5	
283-254	Public Works Department Office	coverand	Proce Building		Actor (Table) Davidson Nobel
291	Public Works Department Wor				
	ment House			2	
293	Ramnee Convent		e beverbles marricular	2)
294	Ramsay Hospital	本語等の機能等に合わる。までは個点の		12	
298	Royal Hotel	"你们的时间是一样的人		5	
801-308	Robilla Lodge including Dairy				rii.
306	Keserve Police Lines				
'am ''	Roman Catholic Chapel		以编码是40多位。	i	
825	Secretariat Offices	Marie Sala			
926	Secretariat Offices Ditto Chaprasis Barrack				¥9
941	St. Francis Home			2	
942	St. Joseph's College	- 44.4 	care our submitted		59
945	St. John's Church	出版在北京和阿拉拉斯的国际的影響。			
346	St. Mary's and St. Nicholas Chu		**************************************	42年的自然的基础的 建二氯基	are all all
			e contract to the contract of		1.49
357	Sylverton (Allahabad Bank).			ees A	(vit
	Taral and Bhabar offices . Ditto do canal offices	A Same Same Same	**************************************	***} 1	23
			A CONTRACTOR OF THE CONTRACTOR	••••	
865-367	Tonga stables. Volunteer Armoury including In		1 13		
	Waverley Hotel			•	ndep
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	Tigh Sone	Street Lighting Private on	Total units delivered per day of severest summer load Average por er throughout 24 hours Maximum power developed Lord Pactor		W. S. Pumping, High Zone Disto Intermellate Zone Disto Low Zone Government House Prigation	Street Lightings Private do
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interpretation	High Zobe Informedia Iow Zone Jovethmen	rest.	en en en en en en en en en en en en en e		naā E	i i

Total units delivered per day of severest winter load = 1525 k. n. hours.

Average lower formload the 24 bours. = 63.6 ...

Askirmum power developed ... = 112 ...

Load Factor

Estimate of requirements in water under severest summer load.

O'elock.	Load k, w.	Load + 10 per cent. k. w.	Per cent. of full load.	Efficiency per cent.	C.fr. per min. at I,000 ft. bead.	Number of sets working.
1 a.m	121 121 101 101 81 120 120 120 120 120 120 120 120 257 262 232 182 192	133 135 112 112 132 132 132 132 132 132 132 132	88 88 74 74 59 88 88 88 88 88 88 82 52 52 52 52 96 96 85 96	72 72 70 70 67 72 72 72 72 72 72 64 64 64 43 78 73 73 72 69	94 94 81 81 68 93 93 93 93 93 93 93 145 45 45 101 195 200 179 147	One.
Total	And the second s	pander situation, non promotionic	yearson empty or our	To the Community of the Property of the State of the Stat	2,335	

Total cubic feet per day=140,100 at severest load. At average load with diversity factor of 0.6 cubic feet required per day are 86,892.

Estimate of requirements in water under severest winter load.

	Yelook.		Load L.W.	Load + 10 per cent. k. w.	Per cent. of full foad.	Efficiency por cent.	Cff. per ninute at 1,400 ft. head.
la.m.			41	45	30	49	4.7
2 3		***	41	4.5	80	49	47
9	***)	in the state of	36	4.0	26	44	46
4 5	8.6 %		36	. 40	2 6	44	46
5 ,	444		26	29	19	34	48
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7 8	in the second		120	132	+ 88	. 72	93
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V	1.64	11.6	150	132	88	72	- 93
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12 moon	***	• • •	70		- 52	, 64	61
1 p.m. 2 , 3 ,	••	•••	85	38	25	43	45
2 ,		34/300 B	35	. 88	25	43	45
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A ,,				14. Japan 19. Salas	1234491411	The wife of way being	
5	wajje e	- 10 m		ALEXANDER OF		***	Page 1
6 7 8	494	Great I	4,62	68	45	Øi	57
7		2 4 4 A	107	117	78	71	84
8 5			112	123	82	72	87
9 10	1996	7. 200	. 102	112	75	70	81
10	FFE.		82	90-	60	67	. 68
11 I2 miduig			67	78	48	62	- 60
	00	and the latest	62	63	45	60	57
	lotal 🗀	6000 - 344				Net control	1,895

Tobat cubic feet per dry \$3,700 at severest load. At average load with diversity factor of 0 6 cubic feet required per day=50,320.

Calculations of effective head on Pelton wheels.

Length of pressure main, lake intake to Sipahi-dhara	3,800	ieet.
Length Sipahi-dhara to power station site	3,000	.,,,
Total length	6,800	
	=2,267	yards.
Name and April 1991	=6,345	
R. L. Jet centres at power station	=4,815	
Static head	=1,530	feet.
Loss of head by friction in the pressure main at 630		10 mg/s
gallons p.m. through a 10" main 2,267 yards long	1914	1.4
(Box's Formula)	=37	59
Add 10 per cent. for eddy losses at bends	= 5	
Total loss in power main	America Confession of the Conf	
Head on jets	=1,489	
Deduct 4 per cent. losses in jets	=74	
Effective head on Pelton wheel	=1,415	

In calculations for water required, it will be safe to reckon on 1,400 feet effective head.

At 1,400 feet head and excluding all losses 100 K. W. will require 134×33,000 (62.4×1,400) c.ft. per minute =50.6 c.ft. per minute.

Calculations of storage required for power purposes.

Average dail	v requiremen	ts in summe	r e i i i i i i i i i i i i i i i i i i	84.0)60 c.ft.
)itto	winter	The state of the first	450 300	20

Assuming that 90 days of the year even in the driest season require no storage, i.e., that rainfall and springs during this period will suffice for power requirements, 275 days remain for which period complete storage may be necessary. Of this period 155 days may be taken as under winter load conditions and 120 days as under summer load conditions.

Total requirements in storage then:—

Summer 120 days at 84,060 c.ft./day 10:09 m.c. f	ect.
Summer 120 days at 84,060 c.tt./day	eet. "
	0000
数 阿里德斯 "我的是一定,我也是这个人的,我们就是我们,我们们的一个,我们的人的人,我们们的人的人的人,我们也没有什么,我们也没有什么,我们也没有这样的,我们	T183.003
40-37-37-77-7-55-45-77-1-4-3-37-7-37-37-37-3-37-37-3-3-3-3-3-3-3	- T - C - 10 h Z -
全部的现在分词,可以可以使用的数据的。例如,我们就是不是一个,我们就是不是一个,我们就是一个一个,我们就是一个一个,我们就是一个一个,我们就是一个一个,我们就会	and the
是是这种的,我们就是一个人,我们就是一个人的,我们就是一个人的,我们就是一个人的,我们就是一个人的,我们就是一个人的,我们就是一个人的,我们就是一个人的,我们就	L. M. P. L. T. 1923. 3
。"李元章重要的"我们,我们就是一个人的,我们就是一个人的,我们就是一个人的,我们就是一个人的,我们就是一个人的,我们就是一个人的,我们就是一个人的,我们就是一	
Winter 155 days of 50.220	American Co.
我的心理事情 是一种,我们 就是一个大型,只要是一个人的人,我们就是一个人的人,我们就是一个人的人的人,我们就是一个人的人,这个人的人,只是一个人的人,这个人的人	P
	Total Control
	C. 1. 10 164 1
表。《文学》是《文学》(《文学》等文文》是《文学》,是《文学》,是《文学》,是《文学》,是《文学》,是《文学》,是《文学》,是《文学》,是《文学》,是《文学》,	
。 周围的基础的表现代表现代,我们就是一个周围的,我们就是一个多数的,我们就是一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个	. 42 . 5 0 00 7 120
아이들, 등장 이상에는 "당근 사람이는 이는 아이들 사람들은 것은 것은 사람들이 아니는 사람들이 없었다. 그 사람들이 되었다면 하는 것 같아 나는 것이 아이들의 기가를 하는 것을 하는 것이다.	
为这种企业,我们还没有的经验,我们就是不是有效的。这是不是的特殊的,我们就是一个不是的,我 们就不是 的,我们还不是一个的,这些是一个的,这些 是一个的,这是一个的 ,	A. A. S. S. S. S. S. S. S. S. S. S. S. S. S.
Total 17.89	19 12 15 15 16 16 16
海水车的大小水车,在一个大大大小大小大小大小大小大小大小大小大小大小大小大小大小大小大小大小大小大小	Office and the second
[45] B. H. L. H. L. H. L. H. L. H. L. H. L. L. L. L. L. L. L. L. H. L. H. L. H. L. L. L. L. L. L. L. L. L. L. L. L. L.	*VELIX ** 2.1
无种类的 我们只要只是,我们还不是有这样的人,我就是有的数据的数据的数据的数据的,我们也能够成为,我们也就是这么人。我们这些时间的时候,我们也不是一个人,这是一	·····································
显得了一种的主题的表现,这时间的"被抗"的"说的"的形式说话,所说:"我们都没有的最难能是自己的是被人的事,我们的不断,我们的一种是否的人员。""我就说,这样就是被说是一样,只要这个一种的"这个是好。"	A 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
ering of the first the fir	n Car bear to

The area of the lake at about R. L. 6350 is 5.25 million square feet. For storage about this level a beight of 3.4 ft. is required.

Calculations of size of power main and Pelton wheels.

Normal full	load on alter	ator		15 0	k. w.
25 per cent.	overload	esc.	da-	38	
Alternator l	юзяез аб 8 рег	cent.	11.	12	le di
Gowining	eren.	(Argintal)	1 (45) 1 (46)	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	i v
	Strawe and Strawe	44 T	otal	202 ≝27L	
				=3/L	D. II. II.

To develop this a Pelton wheel of 271 B. H. P. is necessary assuming 79 per cent. efficiency for the Pelton wheel the power of jet must be 355 H. P.

C.ft. per minute required
$$=\frac{355\times33,000}{63.4\times1,400}$$
 ... =134 c.ft. p.m. =836 g. p.m.

Two 10" mains will pass this flow with a velocity of 2.13 feet per second.

Greatest velocity will take place in the mains when a peak load of 300 k. w. is being met.

Over all efficiency at this load is 73 per cent.

H. P. of jets= $1.34 \times 300 - 0.73 = 550$ H. P.

Cubic feet per min. required
$$=\frac{550 \times 33,000}{02 \cdot 4 \times 1,400}$$
 ... =207 · 8 c.ft. min. =1,300 g. p.m.

Each 10" main will be required to carry 650 g. p.m. velocity will be 3.32 feet per sec. which is permissible in such circumstances.

"CALCULATIONS FOR TAIL RACE CHANNELS.

The maximum discharge which will be required from each set will not exceed 134 c.ft. per minute even with a 25 per cent, overload.

The smallest circular section which can be used if ingress is allowed is a 24° diam, duct. Such a section running half full will when laid at a grade of 1:240 will pass 475 c.ft. per minute at a velocity of 5 ft. per sec, and is therefore suitable.

Recorder Channel.—Allowing a margin for future extension the maximum flow this channel will be required to pass will be 400 c.ft. per min=7 cusees say.

To prevent an appreciable velocity of approach to the weir and to obviate the possibility of waves in the channel the velocity must be limited to \(\frac{1}{2} \) ft. per sec., 14 sq. ft. area in channel is therefore required.

With a depth of 2' 6" in channel a width of 5' 6" will suffice.

The weir will be 66" in lougth and at maximum flow will be required to pass 2,500 g. p. m., which is equivalent to 38 g. p. m. per inch of width.

From Box's Tables a depth of 55" over weir crest will be required for this discharge.

Normally the discharge will not be more than 18 g. p. m. per inch of weir and a depth of 33" will suffice over crest.

The weir will be built with its crest 24" above floor level of channel, and a baffle plate will be provided to prevent disturbances in the channel.

ESTIMATE OF REQUIREMENTS IN WATER UNDER SEVEREST SUMMER LOAD WITH A HEAD OF 950 FT.

O'clock.	C. ft. per minute at 1,400 head.	ft. C. ft. per minute at 950 ft. head.
1 a. m.	94	138
2	94	138
3	81	119
4.	81	119
5	68	100
6	93	137
7	93	137
8	18 18 18 18 18 18 18 18 18 18 18 18 18 1	137
9	93	[187] [187] [187]
40	93	
11	-93	
12 noon	93	187
1 p. m.		103
	61	90
	61	90
4		9 0 6 7
	45	67
6	45 101	148
	いい こうないしょう たいとうしゅう しょうきょう だきにがられる	287
	195 200	295
	179	264
$\frac{10}{11}$	147	ari
12 midnight,	101	148
To intringant		Manufacture Control of the Control o
and the story of t		9 499 A M

3,439 c. ft.
Total cubic feet per day 206,340 at severest load. At average load with diversity factor of 0.6, cubic ft. required per day=123,804.

G. McC. HOEY,

The 29th July, 1919.

Executive Engineer, 1st Sanitary Division, Saharanpur.

NAINI TAL HYDRO-ELECTRIC SUPPLY.
BECGEDS OF RAINFALL, MAINI TAL BASIK.

									,	•	M O	,																			
Total rainfall (inches) per annum.	acted pund		regional ,			k- 000			135,02	•	85.10		17.001	4 00 cx	•	68.60	104-30	70.23	80.59	139.62	148.63	100.62		96.11	M 1	ଦ୍ରେ .	107-72	137:76	rijî!		104
December	GO Prod	gar-ig ar-mig reg hik vij	er en programme en	u P B	t k k		១៩) oc		3.04		60 r		Transcriptor T	ø	8. O	•	*	0.10	(C) (A)		£ ((4)	3.30		0.40		hand a	7	a graph 4441	88.0
November,	64		1			00.	00 T) Ç	000		## THE PROPERTY OF THE PROPERT	30 85 W		Same in the second seco	6	0	4		0.20		0.39	[0·#	60 60 61	os ,	30 60 -4	i i i i i i i i i i i i i i i i i i i			<u>လ</u>	er Stelland Land Land	92.0
October.	good good			*		3 (0.08				• •	# C.		•		W Mary and		0.53	21.06	88.0		N (•				4 7 7	anni es es-boset	97.6
September	2		<u>a</u>	rud Pund	~ e		n ir	s &						10.01	enden, subte		مستوري	-1		-	made rnis ter	our distant.	o	وكالإن الكاري الد	Shippen .			on 90	12	in the state of th	10.05
and under the state of the stat	os.		330	28. OF) c	3 e	2 ic		29.74	131 CO	10,11	(C)	7 6	22.52	6. 95	S. 452	48 8	Feed Co.	න අත අත	32.45	26.86	(C)	26,02	12,44	32,18	£3.30	7. 9I	بي ن ا		encientando de en	39.00
Á	60	and the second	66.37	29.78	လ (ကီ)		7 60 61 60	, yd 1 yd 20 00	2, 10 10 10 10 10 10	20	一	65 C	7.00	5 K	(S) (S) (S)	53 53	23 6	19.56	27.01	25. 25. 25. 25.	500	ec.	<u> </u>	21.23	3.50	30	F. 92	*	*	i i ii	30.90
Ů			18.63			74 C	700	ो देव १	3	60	8	6O 6	ra c	्र तुः स्	pand pand	2100	S	ଦେ	1(3) 	2	 	Provided in	9	82 (70	\$3 		6 1 23 1			16.80
						₹ E	4	e Lic	di Mil. Orang	ta ta a	a di di	4		en un					e sets boss 5	-	and the same	(min.ma				: 	,	يندني	سنست		80.60
A. J.	1				V/10	ાં દિ			98 d	09.0	3.13	Gr. C	Ж. Э	- 100 m	, c	70	10 0	£, 6	0.30	E GO	\$0.0	99.T	0.29	(S)	37 -27	Ö.	o m	64 I	o ev		C) 100
March	*					5 1		7. 6	1 60 · 0		•	97.5	ж. Н.	70.7	(((((((((((((((((((S. C.	e: -	••• ••	22.0	ີ ເຄ ັນ	11.0	8-58	5.69 2.69	4.12	00 00 00 00	18.8		٠ ا اد	(C)	-41 -41	3.22
February	200 12 99 100		••••••••		2 0	→. 0		G, G		16.01		ro Gri	4.03	10.0		i 60	9. II	1 €	C. 4.	22.0	រត្ត ក	90-0	13. T	5.12	6.34	8.8 1	χ. !	ei in	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		3.80
January.	*				NG State 13	10.1	4 4	ę.	7 to		- S. T	88.49	1 56-6	000.4	3.6) co.	t*.	5. S	86.6	27.23	91.	20. L	87.67	38.5	A STATE OF THE PARTY OF THE PAR	48.1		1436	?	er er	
Year		j Ji		7037	TS:S	1868	1804	1885	1896	1427	0001	1900	1901	1902	2002	*021		1807	. X	19499	1910	1911	1912	1913	- TOI'	1915	1916	1917	1918	1918	Avenage

RECORDS OF LAKE DISCHARGE.

, ,	Year.	Total rate of water discharged c.ft. per annum.	Rainfall inches per annum.	Discharge million c.ft. per inch of annual rain- fall.
٠	iri aqaa ahaa di da baa ish ahii ka babi ishaa aa		- And the state of	
	1890			
	7007	6 8 4	100	741
100	1891	¥**		
	1893			
ı	1894	55,209,600	128.70	0.43
	1895		•••	
	1896	82,399,240	78-20	1.05
, V	1897	No records		
	1898	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	201	1.42
	1899	120,468,560	85.10	1.01
	1900	103,194,290	101.43	2.19
	1901	219,109,440	59.74	2.16
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1902	129,032,405 70,607,070	82.09	0.86
i pro e i	1903 1904	261,337,709	97.18	2.69
V	40 A C M	238,096,845	98.60	2:41
	4000	343,159,160	104.80	8.30
1.3	1000	95,789,280	70.23	1.35
	1908	122,640,220	80.59	1.52
	1909	392,773,840	139.67	1 2 83 Section 1
	1910	542,700,356	148.63	8 65
are the Color of	1911	208,588,680	100.62	2.08
	1912	144,736,710	85.50	1.69
	1913	188,736,065	96.11	1·96 2·79
E. P.	1914	357,996,455	128 27	2.48
	1915	331,336,670	133.33	3.03
	1916	324,061,670	107·72 137·76	医囊膜 医乳腺 医克朗克氏性 医多种 医多种 医多种 医多种 医多种 医多种 医多种 医多种 医多种 医多种
	1917	451,683,117	84.45	5.1 TO 整体型 "翻翻图" () () () () () () () () () (
	1918		Can and	
gas figil		A real real real real real real real real	<u> </u>	

The average discharge from lake amounts to about 232,141,000 c.ft. per annum.

The maximum recorded discharge took place from the lake outlet in October 1910, and is by far greater than any other discharge recorded in the period for which records are available. The details of this rainfall are as follows:—

Dates	Inches rainfall.	Gauge level.	Discharge and overflow in million cit, per day,	Run off in inches per 24 hours.
27th September, 1910 28th September, 1910 29th September, 1919 30th September, 1919 30th September, 1919 3rd October, 1919 3rd October, 1919 4th October, 1919 6th October, 1919 6th October, 1919	No. of the second second	4:17 4:15 3:95 3:60 4:20 5:00 4:75 4:20 3:90 3:90	2:56 3:87 4:83 2:20 7:44 44:67 11:56 9:66 6:88 3:83	0°31 0°47 0°67 0°31 1°00 0°13 1°61 1°34 0°88 0°53

CALCULATIONS.

Floor of lake bridge and zero of lake gauge ==

6,349.90 R. L.

Weir creat level

6,353.65 R. L.

3.75 of gauge.

Catchment area of lake :--

 $1.980 \text{ acres} = 43,560 \times 1,980 \text{ sqr. ft.}$

 $= 86 \cdot 2$

million sqr. ft.

1" rainfall over this catchment = 7.18 million c.ft.

Allowing 12" rainfall with 50 % run — off 43.08 million e.ft. would be a possible discharge.

The eight weirs will pass at maximum flow.

8×0*462 million gallons,

= 3.696 million gallons.

6354.9 = II. F. L. of lake.

6355.9 = level of lowest road.

Allow I ft. of free board.

Put sill at 4.0 of gauge.

L. W. L. would be-3.0 on gauge.

Table showing fall in take levels between the date of highest level after shutting sluices, at end of rains, and the date of lowest level in take, immediately before the ensuing rains.

Date:	Gange level	Date.	Gange level.	Total fall (ft.)	Rainfal in inter val (inches),
1	2		** Committee (1) Proposition (5	6
4th November, 1918	2.90	17th May, 1919	1 - 35	1.55	17.15
30th November, 1917	4:20	2nd June, 1918	. 1	2.70	9.44
21st November, 1916	3 · 95	4th May, 1917	. 1.95	2.00	10.60
3rd November, 1915	3.80	29th May, 1916	. 0.00	3.80	6.97
21st November, 1014	4.10	13th June, 1915	. 1.55	2 - 55	22.77
4th November, 1913	3 · 40	31st May, 1914	1.70	1.70	24.15
25th November, 1912	4.10	12th May, 1913	1.40	1 2.70	1.75
25th November, 1911	4*20	16th June, 1912		8.20	11-47
6th December, 1910	4.20	10th June, 1911		2:40	19.12
24th October, 1909	4.00	20th May, 1910		3.00	13.71
16th October, 1908	3.60	2nd June, 1909		2.80	14.78
5th November, 1907	1.70	16th June, 1908		2.70	15.78
14th November, 1996	3.40	13th June, 1907		1.30	29.68
26th October, 1906	3 75	16th June, 1906	COLUMN 1997 1988 1989 1997 1997 1997	2.65	17.82
Shir November, 1904.	3.80	17th June, 1905		1.70	26.17
24th October, 1908	3.15	14th Jane, 1904		2 • 45	11:39
4th November, 1902	2:75	10th May, 1903		2.10	6.41
23rd November, 1901	2200	lst-July, 1902	, 0.50	8.40	1 - 41 - 13
24th October, 1900	2.90	24th June, 1901		1.88	21.66
3rd October, 1899	2.49	28th May, 1900		1,71	15.66
Add November, 1898	8,00	12th Jane, 1899		2.70	14.88
8th November, 1897	2.08	Oth June, 1898	. 0.48	2*50	28 48
7th October, 1896	2.71	12th June, 1897 😘	·0*85	- D-16	21.92

Q. McC; HOEY,

The 20th July, 1919.

Executive Engineer. Let Sandiery Division,

NAINI TAL HYDRO-ELECTRIC SUPPLY.
WATER SUPPLY ARBANGEMENTS.

Supply @ 16 gallons. Gallons.	45,000	37,500	48,750	48,750	150,000	
Suppl ga Ga						
Static head.	1,140	1,130	730	430	242	
Populations.	3,000	2,500	3,250	3,250	10,000	
Size.	THE PROPERTY OF THE PROPERTY O		in	10	•	
Eength of B. main raids.	115'1	1211.0	750	057	973	
TWT	7535.0	7463.0	0.5789	0.9589	8.8899	
Capachies,	<mark>រ</mark>	30,000	30,000	30,000	ğ6,000	
		Lineage of the second s	11.55 21.55 31.55		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Reservativ		Ljarpadia	Inter Chemie	inter Ayarhaitia	Digram Tabk	

Unit per diem	o I	300	25.8	1,170
K. W.	30.3	30.0	30-0	
B, 五. P.	40.7	40.1		
Motor E.	0.87	18.0	0.87	
Gear E	96.0	# 1 m		
Pump E.	0.70	99-0	99.0	
Ai II	_{මත} ් රට දිසු	0.88	0.88	
Total head	55 17 4	. 15 95	298	
Frietion hd in feet.	9 (sev 12 12 (feet.	35 {say 35 15 { feet.	IS. feet	
是 11 · 10 · 10 · 10 · 10 · 10 · 10 · 10	(2)	10 September 1	:56°	
Time of supply.	en En	0.01	9.6 6	
Section 20 (20 miles)		Medical Po-		
	**	oha iii Malion	ankin	
	fornocity Syarjatka	Ester Checha Inter Avarpal	Pilgrim Tanki	

ESTIMATE OF POWER STATION BUILDINGS.

			Rs.
I. Power Station	4 6 2	• • •	28,830
2. Tail Races, Channel and I	Recorder	***	7,629
5. Staff quarters		5	9,629
4. Driver's quarters			6,233
5. Inspection house			3,472
t. Sweeper's Hut		e with	920
			Ti.
	Total	***	56,713
The second secon			W www.components

ESTIMATE OF POWER STATION BUILDING

Rs. a. p. 1. Exervation 13,485 c.ft. 6 0 0 % c.fb.	Rs. 80 2,912
· · · · · · · · · · · · · · · · · · ·	
the contract of the contract o	2,912
2. Lime concrete in 14,564 e.ft. 20 0 0 % c.ft.	t Myrick A
foundation.	100
3. Coursed rubble stone 21,116 c.ft. 23 4 0 % c.ft.	5,965
masonry in lime.	
4. Stone such masonry 286 c.ft. 30 0 0 % c.ft.	86
5. Iron-work 1.8 cwt. 74 0 0 per cwt.	133
6. British rolled steel 23.43 cwt. 25 0 0 per cwt.	586
bening the property of the pro	
7. Stone work 52 c.ft. 6 8 0 per c.ft.	338
8. Concrete over roof 918 c.ft. 21 4 0 % c.ft.	195
9. Lime plaster 12;808 s.ft. 4 8 0 % s.ft.	486
10. Coment pointing 9,409 c.ft. 5 8 0 % c.ft.	517
11. 3" vitrified tile 3,920 s.ft. 0 8 0 per s.ft.	1,060
100ring.	
12. Salwood work 77 c.ft. 4 8 0 per c.ft.	346
면 나는 사람들이 다른 사람들이 되었다. 이 사람들은 이 경기가 되었다. 나는 사람들은 사람들은 사람들이 되었다. 그는 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은	1,408
windows / includ	
ing fleting.	en en en en en en en en en en en en en e
14. Whitewashing 10,808 s.ft. 0 6 6 per s.ft.	43
15. Sliding doors 100 s.ft. 8 0 0 per s.ft.	300
그리즘은 그렇게 되다면 있는 그는 물이의 물리를 하는데 되는 사람들은 말을 하면 없는 그 사람들이 없는데 되었다면 없는 사람들이 되었다는데 없는데 얼마를 하는데 되었다면 살아 하는데 살아 없다.	2,552
concrete.	ra Ta
17. Cornice 151 s.ft. 0 8 0 s.ft. 18. Sheet iron strashade 21 8 0 0 each.	76. 168
	891 108
10. Chirwood planking 4,194 21 4 0 % s.ft.	OUL
	8,388
fron roof includ-	
ing iron trusses.	100
10g from grasses. 21. Stone solt payement 5,837 s.ff.: 15. 0. 0 % s.ft.	888
22. Constructing retain.	517
ing and levelling	
ng and covering	
ed estimate	

Total

28,830

Estimate of Ducts, Tail Race, Outlet Channel and Recorder Chamber.

		Christianion is.		And Annual States	ali 🗪
1	the control of the second		4. 1	a particular	Rs.
Outl	et Chamber and Record	der Chamber	*1.	190	1,487
Duc					2,440
Tail	Race	**************************************		**************************************	1,702
Rec	order Chamber	**************************************			2,000
			Total		7,620
	Eartwarn	of Outlet	CHANNE	ografië op steriografie Th ere is a second	Palencial parameters
		betract of Co	Territoria.		
			Rs. a.		Re.
	will all a law	0.404 - 61			56
	Excavation	9,484 c.ft. 1,018 c.ft.	27.5 - 27.5 - 28.5	The Company of the Co	203
	Lime concrete Coursed rubble stone	The second secon		1	851
Ů.	masonry in lime.	o'oro cur.	40° W	V 70 G.16.	ONE
4.	Boulder pitching	137 c.ft.	7 0	0 % c.ft.	10
5.	Reinforced P. C. con-		2 10	0 c.ft.	18
	12、"我说这一个时间的,就看一个说,这个人,看他你把自己的不懂的的好多点的。"	1,220 s.ft.	8 2	Osfs.	99
	Recorder Chamber				250
					Security tourseless
		Tota	1		1,487
	Compara m	e of Staff	Onartei	18	
a a Radi	그는 뭐 생생을 하라면 사용을 살았다.				
		bstract of co	198		
			Rs. a.	Francisco Salvaria	Rs.
1.	(a) Earthwork in cutting	2,982 c.ft.	6 0	0 %, c.ft.	18
	(b) Earthwork in	711 c.ft.	3 0	0 %, e.ft.	2
e)	filling. Lime concrete in	7 337 c.ft.	20 0	0 % o.ft.	267
	foundations in lime.				
3.	Coursed rubble stone	3,961 c.ft.	28 4	0 % c.ft.	1,113
	Transmitter.				
4.	Coursed rubble stone in clay.	5,440 c.fb.	21 0	0 % 6.ft.	1,144
8	P. C. concrete slabs	54. c.ft.	2 10	0 c.it.	247
б.	Stone arch masonty	194 c.ft.	30.0	0 % c.ft.	58
140	Floor concrete in	542 7.It.	Crost of August C. 3000 Straits		108
	lime.			n u une	hao.
8.	Lime plaster		44 O. o⊏ 6	0 % s.ft.	964
JOT THE MICH SHEET	4" State flooring		ou u T-ma	::0:a:ft;	126
(C.Z. 80) 20 (S.M.)	Salwood railing 2' high.	126 s.fr.		100	e 4 Europe
27. 13. 1 Val. 19	Salwood work		4.8	0.16	1,44)
	4 "Chirwood celling	1,573 s.ft.	24 10	0 % s.ft.	040 7995
18.	Dogg and windows	846 s.H.	L ti	OS. Co	710
	pannelled and				
is a Cal	ginzed (tunwood). Battened deers	78 šift.	7 4	Ø s.fa	98.
	CONTRACTOR AND THE	. O Date			

			,~ ,				
							Re.
14.	22 B. W G. sheet iron.	1,904	e.ft.	105	0 -	0 % s.ft.	1,999
15,	Painting and Var- nishing.	5,456	s,ft.	5	11	0 % s.ft.	313
16.		9	cwt	. 74	0	0 cwb.	148
	White washing					0 % s.ft.	34
18.	Sheet iron sun shade	12		8		O each.	96
19.	Stonework	2,025	n.ft.			0 96 s.ft.	
20,		or of section of the					385
1	levelling site as		· ·				
	per detailed esti-						
	mate.	4		1			
			Tota	1	· · .		9,629
la,	erin er att anter gerage i benedet i den en en. Benedet i					•••	
		the same of the sa	may proper			and and an experience of the control	
	Terinate	or Driv	er's	Qua	RTER	8.	
		1bstract				r i salija	
					a.	n i	310
1.	Earthwork	1 320	n fit	54		o % c.ft.	Rs. 8
2.	Coursed rubble stone					· · · · · · · · · · · · · · · · · · ·	8 644
1. 4000	masonry in line.					70 01	0.1%
1.	Lime concrete in foundation.	1,056 g	ft.	20	0 () 96 ₀ c.ft.	21.1
4,	&" Slate flooring	945 c	.ft.	35	5 () % c.ft.	394
5.	Coursed rubble mesonry in clay.	2,629	i.ft.	21	0	0 % s.fb.	562
6,	Cement concrete batels	50 e	n.	2 1	0 (c.ft.	131
	Earth Alling	bho e.	fi.	8	o c	√ o.fo.	2
8.	Doors and windows .						472
	Salwood work						
10.	i" Chirwood ceiling						
11.	Limo plaster					9á s.ft.	CARLONAN AL AL PARTIA
12.	Whitewashing	5,803 s.	ft.	ð	6 6	% 8.fi.	24
10.	Painting and vary numbers.						215
	Steffe work	-8 ë.	M.	6	8 0	B.ft.	52
15.	Ironwork	1.6	ews.	74	0 () cut.	111
16.	Sheet iron sweepides	. 6		8	0 (ench.	48
Uly	ZZ U. W. U. shoot	1,760 s	,fti. I	.05	0 ('% e.N.	1,848
	iron rocinty. Site cleaning.						
18.	Retaining wall and	and the second	arioteri Pari			. 15 E	086
	levelling as per						
	detailed essimowed	a a publica			Organis (**		

ESTIMATE OF INSPECTION HOUSE.

		e de la companya de la companya de la companya de la companya de la companya de la companya de la companya de La companya de la co	Rs.	В.	р.	Rs.
1,	Karthwork-				The same of the	
	(a) Excavation	778 c.ft.	6	0	0 %, c.ft.	5
	(b) Filling	283 ,,	3	0		1
2.	Concrete in lime	493 ,,	20	0	0 % c.fb.	99
3.	Coursed rubble	1,331 ,,	28		100	376
	stone masonry in					
. ~	lime.					
41.	Ooursed rubble	1,782 ,,	21	0	0	875
	stone masonry in					
314	clay.					
5.	Reinforced concrete	86 ,	2	10	0 per c.ft.	95
6.	이 병원기가 보고 하는 하는 하는	TOW S	. San			e Miller Ale Al Carden
	Cornice complete	187 s.ft.			0 per s.ft.	70
17.	Slate flooring *"	629 ,		5		221
8.	Lime plaster	3,447 ,,	4	8		155
9.	Salwood work	14.5 c.ft.	effected !	1.77	0 ,	65
XV.	Doors and windows of Tunwood.	151 s.ft.	1.	в	0 per s.ft.	208
11.	Stonework	7 · 5 c.fb.	6	8	0 per c.ft.	49
12.	Wood work for roof	88*3 ,,	9	8	0 per c.ft.	398
13.	Ironwork	l owt.	74	0	0 per cwt.	74
14.	Chirwood planking	528 s.ft.	21	10	0 % s.ft.	114
15.	Galvanized sheet iron.	548 "	105	0	0 "	576
10.	Painting and var- nishing.	2,394 ,,	5	11	9	187
17.	Clearing site	Lump sum			(1) 	440
18.	White washing	9,447 s.ft.	Ô	Ø	6 ,	14
						SINCE IN A STREET OF THE STREET
		Total	701		0.0	8,472
	netorijas redomanak	egindőőiserregyer _{te}	day y	e i e i	kan ki jasa sarah	Activities
学研究性			经现代的	187-00		Martine State

Estimate of Sweeper's quarters.

a manager of the conservation	Abstract of	coet.		
1. Earthwork in exca-	247 c.ft.	Rs. a. 6 0	p. 0 %, c.(t	Re. I
yation.		APPENDENT		
2. Kanker lime con- crete.	129 ;	go Calaba ek	0 % 0.15	
3. Coursed rubbled stone masonry in	446 ,,	28: 4	0 ,,	126
lime,	Service Miles		A PARTY OF	
 Coursed rubbled stone masoury in 	604	21 0	U p	.125
clay. 5. Re-inforced con-	9,****	2-10	D e.fr.	46
orela sisb				

Rs.

	α , α , α .	13/18
6.	#" Slate flooring 80 s.ft. 35 5 0 % s.ft.	28
7.	Doors and windows 52 , 1 0 4 s.ft.	65
8.	Salwood work 15 c.ft. 4 8 0 c.ft.	68
9.	#" Chirwood coiling 127 s.ft. 21 10 0 % s.ft.	29
10.	Lime plaster 1,265 ,, 4 8 0 ,,	61
11.	White washing 1,365 ,, 0 6 6 ,,	6
12.	Painting and var- 392 , 5 11 0 ,, uishing.	22
13.	Ironwork 25 cwt. 74 0 0 cwt.	19
14.	22 B. W. G. sheet 133 s.ft. 105 0 0 % s.ft. iron roofing.	140
15.	Retaining wall and	182
	levelling site as per estimate.	
٠	Total	managapanesi COA
	A DUBL	920
	기가 있다고 생물을 받았다. 이 사람이 없는 기가 있는 것은 사람이 되었다. 그는 것이 되었다. 그 사람이 되었다. 	
	- Annanaga marana	e e e
	POWER STATION EQUIPMENT.	en leg jarasen en jarjar
	Estimate.	Re,
i.	Three sets, direct coupled Pelton wheels 272 B. H. P.	LAD
	750 R. P. M., to three phase alternators 3,300	
	volts, 50 cycles with self-contained exciters, oil	
vii)	pressure governors with combined slow motion needle and jet deflector gear, and with emergency	
	hand regulating valves and connections erceted and	
	complete and tested @ Rs. 27,000 each	81,000
2.	Switck-board containing three generator, one spare,	
	one feeder, one auxillary and one regulator panels, one swing synchroniser panel, watt-hour meters,	
	volt meters, ammeters, time fuses and automatic	
	release, oil switches, totally enclosed, bus bars and	
	all connections complete and erected	21,000
8.	Two 12.5 K. V. A. three phase transformers 3,800: 380 with all connections complete to bus bars and	
	auxiliary panel	5,000
4	Isenthal lightning arrestor gear and connections to	
	earth and line, including horn arrestors, isolating	
	switches complete and erected	12,000
Б.	One three-ton hand traveller grave and 80 ft, of run-	
	way erected complete	4,500
6.	Workshop equipment as per estimate below	位置 [1] "是一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个
7,	Ten 150 c. p. lighting points with connections, four of which must be off exciter circuit	直接性 经的原告证 2000年
8,	Spares for alternators and motors	植物群岛 类化。此后,这一一个
9.	Office furniture was the same with	0,500 750
	Total and markets	155400
	Security 1998 Security and Security 1994 Sec	
		1500年1月1日 200

WORKSHOP EQUIPMENT.

Estimate.

	Bsirmate.	Rs.
1.	One 101" centre, self-acting, sliding surfacing and	
	screw cutting lathe	6,000
2,	One bench lathe	750
3.	One large machine drill	2,250
4,	One small ditto	500
5.	One bench emery: grinder (double)	300
6.	Ditto drill	300
7.	One machine caw for matel with snores	450
8.	One double set Whitworth taps and dies	450
9.	One set "gas" taps and dies	750
10.	One smith's forge with electric blower	2,500
11.	One set high speed twist drills	750
12.	Two fitters vices (large size)	200
13.	Two 5 B. H. P. three phase induction motors	5,000
14.	Line shafting with bearings and brackets for above	1,250
15,	Ten lighting points complete	400
16.		×^^
17.	Small tools, gauges etc	1,500
18.	THE REPORT OF THE PROPERTY OF	1,500
19.	One drying oven for coils	500
20.	One vacuum cleaner with electric motor	1,300
ζU,	Olfe Asserting electrical alternation manner at	1,000
	ESIMATE OF POWER PIPE LINE.	4
		Re.
W	ard Rock.	
So	00 ft. ×4'—6"×4' 594,000 cft. at Rs. 50 ft Rock.	2.970
1 17 70	$00' \times 4' - 6'' \times 4'$ 59,400 ; , 25	1,485
	pairs to road surface, to parapets, culverts and retain-	
ing	yalis	750
	st of 5,000 fb, ran of deuble 10" steel main 5. W. C.	
	table for 1,020' working head including laying and	
jou	iting at Rs. 25:5 per r.ft.	1,27,500
	st of 600 ft run of double 10" steel main 4" thick	• 11
	table for 1,260 ft. working head including laying and	
	nting at Rs 28, per ft	16,800
	st of 1,200 ft, run of double $10''$ steel main $5/16''$	
	ek suitable for 1,600 ft. working head including laying	1.500.06
•алс	l jointing at Rs. 34. per ft.	4 0,800
	ceve pipes bends and valves and air valves, at 5 per	
cen	t. од 185,100 г.,	១,28% :
	nerete thrust blocks and holding down bolts as per	
1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1		4,082
au.	let arrangements at lake as per estimate attached.	, 40,588; j.
	11.1.1.11、12.1.1.11、12.1.11、12.1.11、12.1.11、12.1.11、12.1.11、12.1.11、12.1.11、12.1.11、12.1.11、12.1.11、12.1.11、12	AND STREET PARTY OF THE PARTY OF THE

Cost of 10" main for 1,600 ft. head.

Thickness 5/16" coated with Angus Smith's solution and fitted with "Albion joint."

£. e. d. 0 18 6 C. I. F. Bombay. Rs. 14 per foot Weight. 35.70 lbs. per foot. 8,570 , chain. Add for jointa 430 4,000 lbs. per 100 feet. 40.00 , , foot 0.86 cwts per foot. Rallway freight at Re. 1-8-0 per cwt, is 0.54 per foot Loading and cartage to site at Re. 1-8-0 per owt. is 0.54 per foot Laying, fixing and bolting at Re. 1 Total 1.44 Total per pipe laid and fixed 15,5 per foot. Add ton per cont, for breakage and spares 1.8 17.0 per foot 10" main 1,260 head thickness 1" S. a. d. 0 15 3 O. I. F. Bombay. Rs. 11.5 per ft. Weight. 28.85 lb. per foot. 2.885 Add for joints 840 32.25 lbs. per foot. 0.26 owts. Close of 10" main for Rs. 1,260 head. Railway freight at Rs. 1-8-0 Loading and cartage at Rs. 1-8-0 ... Laying, fixing and bolting at Re. 1 ... Total Watel for pipe laid and fixed 27 m Add 10 per cent, for breakage and spares Total .,. 18'93 asys Rs. 14 por foct Cost of 10th main for 1,020 ft, head thickness 5 W. G. L. v. d. 0. 14 14 Rs. 10 6 per foot. Weight, 24:56 lbs. per loot,

23.00 lbs. per foot the 0/26 cms. per foot,

	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Rs.
Railway freight at Re. 1-8-0	aed	***	0.38
oading and cartage at Re. 1-8-0	14.	•••	0.38
aying, fixing and bolting at Re.	1	•••	0.25
			1.01 pe
Cotal for pipe laid and fixed	• • •	· ·	1·16 pe
add ten per cent, for breakage an	d spares	809	1.17
	Tot	al .	. 12.76 pe
			Dispusation and D
Stophadox Stop	namen and		
nower P imate of Concrete Thrust Blocks of	IPE LINE.	Down Rolts	and Clins
mate of Concrete Thirdse Dioche o	erece axcocorag	270011 270114	Lbs.
Block.			
Two 5'-6" one inch diameter bo	lts with wash	ers and nuts	com-
plete at 80 lbs.			60
One semi-circular steel clip			12
		rocket	72
		Total	see 1 ds
			Rg.
one hundred block.			
7200 lbs.=65 owts. at Rs. 30			. 1,950
Excavation of ground-			
100×3'×3'×5'=4,500 oft. at R	s. 20	1 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1	90
Portland Cement Concrete-			2200
$100 \times 3' \times 3' \times 5' = 4,500$ cft. at R	s. 1,375 .		. 6,180
一个大大的人,只是一点的人,就这个世界的大大的情况和简单,也不是这个意思			
	. Tot	il .	8,220
			-
For sixty such blocks complete an			8,220 4,932
For sixty such blocks complete an			-
	d laid the con	s will be	4,932
For sixty such blocks complete an ESTIMATE OF INLET ARRANG Abstrac	d laid the con	s will be	4,932
ESTIMATE OF INLET ARRANG Abstrac	d laid the con	s will be	4,932 INE. Total.
ESTIMATE OF INLET ARRANG	d laid the con EMENT TO Post of cost. Quaritity.	o will be	1NE. Total. Rs.
ESTIMATE OF INLET ARRANG Abstrac Description of work.	d laid the connection of cost. Quantity. 3,025	ot will be OWER PIPE L RES. 50/1000 c. fo	4,932 INE Total. Rs. 151
ESTIMATE OF INLET ARRANG A betrace Description of work, 1: Excavation in rook 2. Control value masont	d laid the connection of cost. Quantity. 3,025	Rabe. 50/1000 c. ft	4,932 INE. Total. Rs. 151 292
ESTIMATE OF INLET ARRANG Abstract Description of work. 1. Expanation in rook 2. Coarse rubble stone mason; 3. P. C. concrete	d laid the constant to Post of cost. Quantitity: . 3,025 y 1,932	th will be Rabe. 50/1000 c. ft 28/4-100	Total. Rs. 151 292 1,495
ESTIMATE OF INLET ARRANG Abstract Description of work. 1. Excavation in rook 2. Coarse rabble stone masonf 3. P. C. concrete 4. Reinforced concrete	d laid the connector of cost. Quantity. 3,025 y 1,932 1,087	t will be Rate. 50/1000 c. ft 28/2/100 1/6 2/10	Total. Rs. 151 292 1,495 1,604
ESTIMATE OF INLET ARRANG A betract Description of work. Excavation in rook Coarse rabble stone masonr P. C. concrete Reinforced concrete Iron rock (Angle rock, etc.).	d laid the constant to Post of cost. Quantity. 3,025 y 1,032 1,087 611 8:8	Tabe, 50/1000 c. fr 28/4/100 2/10 74 c. w	Total. Rs. 151 292 1,495 1,604 t. 652
ESTIMATE OF INLET ARRANG Abstract Description of work. 1. Exquation in rook 2. Coarse rubble stone mason; 3. P. C. concrete 4. Reinforced concrete 5. Iron rock (Angle rock, etc.) 6. 15" sluice valves	d laid the configuration of cost. Quantitity: . 3,025 y 1,032 . 1,087 . 611 8.8	ower Pipe L Rabe. 50/1000 c. ft 28/4/100 1/6 2/10 74 c. w 525	Total. Rs. 151 292 1,495 1,604 1,652 2,100
ESTIMATE OF INLET ARRANG A betract Description of work. Excavation in rook Coarse rabble stone masonr P. C. concrete Reinforced concrete Iron rock (Angle rock, etc.).	d laid the connector of cost. Quantity. 3,025 y 1,932 y 1,087 61.1 8.8 4 80 s. fo	ower Pipe L Rabc. 50/1000 c. ft 28/4/100 1/6 2/10 74 c. w 525	Total. Rs. 151 292 1,495 1,604 t. 652 2,100 80
ESTIMATE OF INLET ARRANG Abstract Description of work. 1. Excavation in rook 2. Coarse rabble stone masonr 3. P. C. concrete 4. Reinforced concrete 5. Iron rock (Angle rock, etc.) 6. 15" stuice valves 7. 4" mesh wire netting 8. Timber baulks	d laid the constant to Post of cost. Quantity 3,025 y 1,032 . 1,087 . 611 . 8.8 4 . 80 s. fb. 68	t will be Rabe. 50/1000 c. ft 28/4/100 1/6 2/10 74 c. w 525 1 s. ft 4/8	Total. Rs. 151 292 1,495 1,604 1,604 1,652 2,100 80 306
ESTIMATE OF INLET ARRANG Abstract Description of work. 1. Excavation in rook 2. Coarse rabble stone masonr 3. P. C. concrete 4. Reinforced concrete 5. Iron rock (Angle rock, etc.) 6. 15" stuice valves 7. 4" mesh wire netting 8. Timber baulks	d laid the constant to Post of cost. Quantity. 3,025 y 1,932 7,087 611 8.8 4 80 s. fo. 68 180 ft	TRABE. TRABE. 50/1000 c. ft 28/4/100 1/6 2/10 74 c. w 525 1 s. ft 4/8 20 fb.	Total. Rs. 151 292 1,495 1,604 t. 652 2,100 80 306 2,600
ESTIMATE OF INLET ARRANG Abstract Description of work. 1. Excavation in rook 2. Course rubble stone mason 3. P. C. concrete 4. Reinforced concrete 5. Iron rock (Angle rock, etc.) 6. 15" stuice valves 7. 4" mesh wire netting 8. Timber baulks 9. 15" diameter steel main	d laid the constant to Post of cost. Quantity 3,025 y 1,932 . 1,087 . 61.1 . 8.8 4 . 80 s. ft. 68 130 ft.	t will be Rabe. 50/1000 c. ft 28/4/100 1/6 2/10 74 c. w 525 1 s. ft 4/8	Total. Rs. 151 292 1,495 1,604 1,052 2,100 80 306 2,600 198
ESTIMATE OF INLET ARRANG A betract Description of work. 1. Excavation in rook 2. Coarse rubble stone masons 3. P. C. concrete 4. Reinforced concrete 5. Iron rock (Angle rock, etc.) 6. 15" stuice valves 7. 4" mesh wire netting 8. Timber baulks 9. 15" diameter steel main 9. C. L. Angle branch 15"	d laid the constant to February to Februar	TRABE. TRABE. 50/1000 c. ft 28/4/100 1/6 2/10 74 c. w 525 1 s. ft 4/8 20 fb.	Total. Rs. 151 292 1,495 1,604 1,604 2,100 306 2,600 6, 198
ESTIMATE OF INLET ARRANG Abstract Description of work. 1. Exquation in rook 2. Coarse rubble stone mason; 3. P. C. concrete 4. Reinforced concrete 5. Iron rock (Angle rock, etc.) 6. 15" stuice valves 7. " mesh wire netting 8. Timber baulks 9. 15" diameter steel main 9. C. L. Angle branch 15" 1. 4th C. L. bend	d laid the constant to Post of cost. Quantity 3,025 y 1,087 611 8:8 4 80 s. fb. 68 130 ft. 1	TRABE. TRABE. 50/1000 c. ft 28/4/100 1/6 2/10 74 c. w 525 1 s. ft 4/8 20 fb.	Total. Rs. 151 292 1,495 1,604 t. 652 2,100 80 306 2,600 6 198 132 138
ESTIMATE OF INLET ARRANG Abstract Description of work. 1. Excavation in rook 2. Coarse rubble stone mason; 3. P. C. concrete 4. Reinforced concrete 5. Iron rock (Angle rock, etc.) 6. 15" stuice valves 7. \(\) mesh wire netting 8. Timber baulks 9. 15" diameter steel main 9. C. L. Angle branch 15" 1. \(\) th C. L. bend 12. C. I. tee	d laid the consensus of cost Quantity. . 3,025 y 1,032 . 1,087 . 611 . 8.8 4 . 80 s. fb. 68 . 130 ft 1	Tabe. Tabe. 50/1000 c. ft 28/4/100 1/6 2/10 74 c. w 525 1 s. ft 4/8 20 ft.	Total. Rs. 151 292 1,495 1,604 t. 652 2,100 80 306 2,600 198 132 133 175
ESTIMATE OF INLET ARRANG Abstract Description of work. 1: Excavation in rook 2: Coarse rubble stone mason 3: P. C. concrete 4: Reinforced concrete 5: Iron rock (Angle rock, etc.) 6: 15" stuice valves 7: \[\frac{1}{2}" \] mesh wire netting 8: Timber baulks 9: 15" diameter steel main 1: \[\frac{1}{2} \] th C. L. bend 1: \[\frac{1}{2} \] th C. L. bend 1: \[\frac{1}{2} \] C. I. tee	d laid the consensus of cost Quantity. . 3,025 y 1,032 . 1,087 . 611 . 8.8 4 . 80 s. fb. 68 . 130 ft 1	Tabe. Tabe. 50/1000 c. ft 28/4/100 1/6 2/10 74 c. w 525 1 s. ft 4/8 20 ft.	Total. Rs. 151 292 1,495 1,604 t. 652 2,100 80 306 2,600 198 132 133 175
ESTIMATE OF INLET ARRANG Abstract Description of work. 1. Excavation in rook 2. Course rubble stone masons 3. P. C. concrete 4. Reinforced concrete 5. Iron rock (Angle rock, etc.) 6. 15" stuice valves 7. 4" mesh wire netting 8. Timber baulks 9. 15" diameter steel main 15" diameter steel main 10. C. I. Angle branch 15" 11" thesh expanded metal	d laid the consensus of cost Quantity. . 3,025 y 1,032 . 1,087 . 611 . 8.8 4 . 80 s. fb. 68 . 130 ft 1	Tabe. Tabe. 50/1000 c. ft 28/4/100 1/6 2/10 74 c. w 525 1 s. ft 4/8 20 ft.	Total. Rs. 151 292 1,495 1,604 t. 652 2,100 80 306 2,600 6 198 132 138 175
ESTIMATE OF INLET ARRANG Abstract Description of work. 1: Excavation in rook 2: Coarse rubble stone mason; 3: P. C. concrete 4: Reinforced concrete 5: Iron rock (Angle rock, etc.) 6: 15" stuice valves 7: 4" mesh wire netting 8: Timber baulks 9: 15" diameter steel main 9: C. L. Angle branch 15" 1: \$tb C. L. bend 2: C. I. tee 3: 15" 10" reducers 4: 4" mesh expanded metal melting.	d laid the consensus of content to Post of cost. Quantity. 3,025 y 1,932 1,087 611 8.8 4 80 s. ft. 68 130 ft. 1 2 10 s. ft.	Tabe. Tabe. 50/1000 c. ft 28/4/100 1/6 2/10 74 c. w 525 1 s. ft 4/8 20 ft.	Total. Rs. 151 292 1,495 1,604 t. 652 2,100 80 306 2,600 6, 198 132 138 175 1500
ESTIMATE OF INLET ARRANG A betrace Description of work. 1. Excavation in rook 2. Coarse rubble stone mason; 3. P. C. concrete 4. Reinforced concrete 5. Iron rock (Angle rock, etc.) 6. If stuice valves 7. I mesh wire netting 8. Timber baulks 9. If diameter steel main 10. C. I. Angle branch 15" 11. Ich C. I. bend 12. C. I. tee 13. Ither the connection 14. Ither the connection 15. Buoy and chain connection	d laid the constant to February to Februar	Tabe. Tabe. 50/1000 c. ft 28/4/100 1/6 2/10 74 c. w 525 1 s. ft 4/8 20 ft.	Total. Rs. 151 292 1,495 1,604 t. 652 2,100 80 306 2,600 6 198 132 138 175
ESTIMATE OF INLET ARRANG Abstract Description of work. 1. Excavation in rook 2. Coarse rubble stone masons 3. P. C. concrete 4. Reinforced concrete 6. It's fluice valves 7. §" mesh wire netting 8. Timber baulks 9. It' diameter steel main 9. C. L. Angle branch 15" 1. §th C. L. bend 2. C. I. tee 3. 15" incsh expanded metal melting.	d laid the constant to February to Februar	Tabe. Tabe. 50/1000 c. ft 28/4/100 1/6 2/10 74 c. w 525 1 s. ft 4/8 20 ft 24 c.w	Total. Rs. 151 292 1 495 1 604 t. 652 2,100 80 306 2,600 6, 198 132 138 176 (b. 10

NAINI TAL HYDRO-ELE(
ESTIMATE OF TRANSMISSION A	ND DISTRIBUT	NON.	
lard drawn, high conductivity copper wir	e, delivered a	and erec	ted
, , , , , , , , , , , , , , , , , , , ,		,	Res.
H. T Transmission 7,627 lb. at 1	1 e 4	,	9,534
L. T. distribution 96,692 lb. at 1	5		1,20,865
Single H. T. line 0:51 mile at Rs. 6,60	·		3,366
Single L. T. line 12 67 miles an Rs. 6,6		#.A.B.	83,622
Combined H. T. and L. T. line 2.67 mi		1.	28,988
Lighting circuits and equipment, 15:34			31,386
The Brown will have a control of the brown of the control of the c	11110 (40 %413, %	d to more a	0.1,000
	Total		2,77,761
		.	- 1 + 1 + C -
Corporate and the contract of			
SCHEDULE OF LENGTHS OF H. T. TRANSMI	SSION AND L.	T. Dist	RIBUTION
1. Single high tension line. Generat	ing armiton-	rine h r	DI Sub-sta
900 yards.			ي ياد
2. H. T. and L. T. combined	andria. Na antra de la companya de la companya de la companya de la companya de la companya de la companya de la compa		L. T. single
Sub-station I		67	7,759
Ditto II	•	80	9,953
Ditto III	6	157	4,581
Pro A	a proposition of the second se	onshmang.	theremonates entitle
Totals	ivi Maji	04 yds.	22,293 yd
	WEST STATE OF THE	Mentands	filtrinami inclination
사용하면 물질이 그래. 프라스테 이번 전하다.			Mile.
1. Single high tension line 900 yards		**	0.51
2. Single low tension line 22,293 yard			12.67
3. Combined H. T. and L. T. line 4,70	4 2		and the same state of
TIMATE OF POLES AND POLE EQUIPMENT P		ingle B	. T. Lane.
TIMATE OF POLES AND POLE EQUIPMENT P	er mile of s	ingle H	
TIMATE OF POLES AND POLE EQUIPMENT P 33 single poles as per estimate I Estimate of poles and pole equipment L. T. line.	er mile of s	ingle H	. T. Line. Rs.
TIMATE OF POLES AND POLE EQUIPMENT P 33 single poles as per estimate I Estimate of poles and pole equipment L. T. line. 38 single poles as per estimate III	er MILE OF S	nele B	. T. Line. Rs. 6,600
TIMATE OF FOLES AND POLE EQUIPMENT P 33 single poles as per estimate I Estimate of poles and pole equipment L. T. line. 33 single poles as per estimate III Estimate of poles and pole equipment	er MILE OF S	nole B ingle both	. T. Line. Rs. 6,600 6,600
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TIMATE OF FOLES AND POLE EQUIPMENT P 33 single poles as per estimate I Estimate of poles and pole equipment L. T. line, 33 single poles as per estimate III Estimate of poles and pole equipment H. T. and L. T. line per mile. 38 poles and equipment as per estimate Allowance per mile for lighting e	per mile of and to earry	ingle	. T. Line. Rs. 6,600 6,600
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TIMATE OF POLES AND POLE EQUIPMENT P 33 single poles as per estimate I Estimate of poles and pole equipment L. T. line. 33 single poles as per estimate III Estimate of poles and pole equipment H. T. and L. T. line per mile. 38 poles and equipment as per estimate Allowance per mile for lighting e 35 × 62 I—ESTIMATE OF SINGLE E 1. 48' 4" medium Hamilton steel orected 2. Socket and base plate	per mile of and to earry IV [uipment] T. Poles.	ingle both	T. Line. Rs. 6,600 6,600 10,857 2,046 Rs. 125 6
33 single poles as per estimate I Estimate of poles and pole equipment L. T. line. 38 single poles as per estimate III Estimate of poles and pole equipment H. T. and L. T. line per mile. 38 poles and equipment as per estimate Allowance per mile for lighting estimate 88 × 62 1. 38' 4" medium Flamitten steal erected 2. Socket and base plate 3. Pole cap and earth wire clip	per mile of and to earry IV [uipment	ingle both	T. Line. Rs. 6,600 6,000 10,857 2,046 Rs. 125 6
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33 single poles as per estimate I Estimate of poles and pole equipment L. T. line. 33 single poles as per estimate III Estimate of poles and pole equipment H. T. and L. T. line per mile. 35 poles and equipment as per estimate Allowance per mile for lighting estable and equipment as per estimate. I—Estimate of poles and pole equipment as per estimate. Allowance per mile for lighting estable and early medium Elamikton steal erected Socket and base plate Socket and base plate Calvanized malleable C. I. insulator nuts and washers	per mile of and to carry TV [uipment Trolus. brackets with	ingle both d. and bolts	T. Line. Rs. 6,600 6,000 10,857 2,046 Rs. 125 6
33 single poles as per estimate I Estimate of poles and pole equipment L. T. line. 33 single poles as per estimate III Estimate of poles and pole equipment H. T. and L. T. line per mile. 33 poles and equipment as per estimate Allowance per mile for lighting e 35 × 62 1. 28' 4" medium Hamilton steal erected 2. Socket and base plate 3. Pole cap and earth wire clip 4. Calvanized malleable C. I. insulator nuts and washers 5. 3 H. T. brown possession triple pette	per mile of and to earry IV Ivipment Ivipment brackets with coat insulate	ingle both bolts, r with	T. Line. Rs. 6,600 6,600 10,857 2,046 Rs. 125 6 2 8
33 single poles as per estimate I Estimate of poles and pole equipment L. T. line. 33 single poles as per estimate III Estimate of poles and pole equipment H. T. and L. T. line per mile. 33 poles and equipment as per estimate Allowance per mile for lighting estimate 35 × 62 I—ESTIMATE OF SINGLE E 1. 38' 4" medium Hamilton steal erected 2. Socket and base plate 3. Pole cap and earth wire clip 4. Calvanized malleable C. I. insulator nuts and washers 5. 3 H. T. brown porcelain triple pettal W. I. stems, washers and nuts tes	per mile of and to carry TV TV TV TV TV TV TV TV TV T	ingle both bolds bolds r with volus	T. Line. Rs. 6,600 6,600 10,857 2,046 Rs. 125 6 2
33 single poles as per estimate I Estimate of poles and pole equipment L. T. line. 33 single poles as per estimate III Estimate of poles and pole equipment H. T. and L. T. line per mile. 33 poles and equipment as per estimate Allowance per mile for lighting e 35 x 62 I—Estimate of single E 1. 38' 4" medium Hamilton steel erected 2. Socket and base plate 3. Pole cap and earth wire clip nuis and washers 5. 3 H. T. brown porcelain triple pettle W I stems, washers and nuts tee 6. Excavation and rammed earth filling	per mile of and to carry TV TV TV TV TV TV TV TV TV T	ingle both bolds bolds r with volus	T. Line. Rs. 6,600 6,600 10,857 2,046 Rs. 125 6 2
33 single poles as per estimate I Estimate of poles and pole equipment L. T. line. 33 single poles as per estimate III Estimate of poles and pole equipment H. T. and L. T. line per mile. 33 poles and equipment as per estimate Allowance per mile for lighting e 35 x 62 I—ESTIMATE OF SINCLE E 1. 38' 4" medium Hamilton steal erected 2. Socket and base plate 3. Pole cap and earth wire clip 4. Calvanized malleable C. I. insulator nuts and washers 5. 3 H. T. brown porcelain triple petta W. I. stems, washers and nuts tes 6. Excavation and rammed earth filling 7. Congrete stab	per mile of and to carry IV [uipment Drackets with cont. insulance ted to 6,600 per hole	ingle both bolts	T. Line. Rs. 6,600 6,600 10,857 2,046 Rs. 125 6 2 8. 86 7
33 single poles as per estimate I Estimate of poles and pole equipment L. T. line. 33 single poles as per estimate III Estimate of poles and pole equipment H. T. and L. T. line per mile. 33 poles and equipment as per estimate Allowance per mile for lighting e 35 x 62 I—Estimate of single E 1. 38' 4" medium Hamilton steel erected 2. Socket and base plate 3. Pole cap and earth wire clip nuis and washers 5. 3 H. T. brown porcelain triple pettle W I stems, washers and nuts tee 6. Excavation and rammed earth filling	per mile of and to carry IV [uipment Drackets with cont. insulance ted to 6,600 per hole	ingle both bolts	T. Line. Rs. 6,600 6,600 10,857 2,046 Rs. 125 6 8 8 86 7

					Rs.
9,	Painting per pole		3. 50 W. 44		e.
10.	Barb wire fender	***	754	0.05	2
11.	Earth wire spans		•••	• • •	3
			Marko I		000
			Total	* * *	200
II.—I	STIMATE OF GUARDING A	H. T. SPAN.			
1.	L. iron frame & maund a	t Rs. 30 per	maund	853	15
2.	No. 10 G. I. wire 1 mau	nd at Rs. 50	per mound		50
			Total		65
					and the street of
III	ESTIMATE OF L. T. SINGL	e Pole.			
					Rą.
1.	37'-4" medium Hami	lton Steel	Pole delivered	and	102
n	erected		###		125 6
2.	Socket and base plate	alim	innik alemaniya ale manya sa saka Talah ajak nanah alemani benjaya		2
3. 4.	Pole Cap and earth wire Galvanised malleable C		hrackets with	oolts.	
w.	nuts and washers	, a, amulituvvi	. The surface of more . It is the .	848	8
5.	6 L. T. white porcelain	380 volt	insulators teste	d to	
	2,000 volts with G. W.				30
6,	Excavation and filling		989		7
7.	Concrete slab			649	4
8.	Earth plate and connecti	on per pole			2
9.	Painting per pole				5
10.	Barb wire fender		The state of the s	* # #	2
11.	Earth wire spans at 3	e e e e		•••	8
12,	Neutral wires per span	y g d			(
			Total	214	200
eri oda Kalimire su Trum Tugʻilgan					notes and sections
***	estimate of single pole	ምሳ ሲላወ ታ ው ው	OTH H. T. AND	c. W. 1	ines.
1.4.4.1	STRATE OF BINGUE FORE	TO OURSE TO			Rø.
					200
1.	Total as per estimate I		网络克勒斯 医骶骨髓 医皮肤切除 经正式 计电路符号	* * *	200 25
2,	Extra for heavy pole	78	€ (#)		65
3.	Guarding as per estimat 5 L. T. brown porcelain	980 volta	ingulators legis	d to	
4.	2.000 volts with G. W.	oov voros Esstema nad	nuts	1 1 1 1 1 1 1 1 1	28
5.	Malleable C. I. brackets	with bolts a	nd nots		8
6.	Neutral wires per span			837	θ
and Administration			W L Sad Transpir		-
4 (4) ('Total	***	829
					erfestratusia
V	TIMATE OF ADDITIONAL A	LLOWANCE I	io <mark>de made</mark> per	SPAN	for Light
	inorit and fittings.	Prince Committee			
	an an an an an an an an an an an an an a		a central programs in solding		Rs.
1.	No. 8 S. W. G. copper	lighting of	rcuit span incl	nding	
4.	bracket and insulators			401	3 0
2.	Lamn bracket		1444 1444		10
3.	Lamp holder and reflecte	ir with 50 v	olf bulb and cov	hee-	
	tion complete	reini	949		7
4.	Lighting switches at Rs.	150 for ten	ерап :		15
				e e	62
	en en en en en en en en en en en en en e	ander i de la designation de l	- Lotal	7. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	Udi
	And the second s				

NAINT TAL HYDRO-BLECTRIC SUPPLY.
CALCULATION OF COPPER FOR DISTRIBUTION.
Sub-Station I.

Total	134 134 140 140	64 69 60	in	(D)	6-4 6-4 6-4	355	Cr Wr	C2,02	019	2,650	64 C.	283	241	363	181	2,289	850	2,862	KO Wil Pri	114	1,291	en Ch	7# C4 C9	63 00 00 00	672 672 pri	34,508
Weight per 1,000 pards for 3 phases.	3X818	3 X 335	765 X 8	× S	3×1059	a X I S I	3X 335	3×335	3X335	3×818	3X692	3X818	3×335	3×354	3×335	3×1257	3×354	3×1257	3×1225	3×335	3×489	3×385	3X 517	3X818	3×2235	- And developing of the State of State
Copper section S. W. G.	e~0	Ø	CP	er)	SX SX	3×000	9	9	9	#-4 :	Ć\$	yel	φ	0	ယ	000	9 X 8	3×000	3×7/0	မ	व्यक्	ç	67	e-t	3X7/0	5. 9
Ohms per L,coo yards.	98.0	9.7	8	0.50	0.08	o	no.	86.0	(-m)	ਜ਼ ਹ	EF.O	0.85	3 50	0.57	15.26	0.50	66.0	20.0	0.03	9.4	0.60	9-67	0.49	0.32	80.0	
Voits drop per 1000 yards.	ໝ່	(5) 4(3)	ž~ Li	era Ori	6.9	9.0	g-one g-one g-one	445 10-4 10-4	F.4 F.2	ത	60 63	(9 t-	90.0	CF3	C. C.	ch b	ci ci	C)+	co Co	k» Øi	in en	20.4	О	Ch.	co G	ing the state of t
Volts drop in section.	o.	Cra श्रीक	(.va e4	to to		(C)	Ø	673	10.5	9	co en	(35) 304	(<u>()</u>	e e	(C)	ÇO.	တ	C) ch	करूं। **-	youg y-1	φ (0)	Cn ⊷	9	65 65 65	e c	
Voltage at end of section	36€-3	20 CO	0 00 0 3 00 0 3 60 1	7 00 C	2 C 1	- t- c	0 mm c	1 44 0 4 03 0 6 03 0	4 60 4 4 40 6 4 4 6 6	2 63 6 4 10 4	1 00 0 1 00 0 1 00 0	3 00 u	24 68 6 24 68 6	3 60 C	20 CO CO CO CO CO CO CO CO CO CO CO CO CO	0000	i el 6	1 61 6 2 63 6	2 60 6 50 6 50 6	00 CB	2000	000 c	7 00 e	1 m c	379.6 379.6	
Amperes.	12:11	63 83	55.68	65 65 65	88 08	96 84	Co.	8	15 15 15	G Te	(A)	31.65	60	8	H	660	53.93	102.63	2016-17	Ħ	(n 1- 1- 1-	7	\$ 5. 6. 6.	ğ	**************************************	
fi. W. power fac-	60	***	Ġ.	C0	co en	29.00	O.	io W	e u	O	1sh F	ro co	69 69	CO Fri	œ	0.97	6. 6. 6.	0.58		о С	Ö	& D	ld⊅ ≱res	10.5	0	
B.W. re- guired D. lactor 6.	•	et ••	ci P*	-11	ç	wir CD CD	*	. up	cO ***	9-6	0.0	9	073 privi	0	6	0.27	o.	3. 18	e.29	9.0	(7) -in	0 •0	0.9	48 60	è	i
Lergth in yards.	Š	128	180	80 861	720	S	1780	13	5 5	1,080	155 66	33.	ន្ត	87	B	202	8	er G	S.	ra Fil	CES	to,	17	8	5	
To junthon.		18 M	Mary and Mar	*	9		ř									*	•	•		*			•		*	•
15 p	, III			Z		16		; 6 :	<u>m</u>	<i>6</i>		[31		ö	8	70	9	H H			ō	ų P	i d	•	4.	
Tions danction.		,	**************************************		Mag						e P			, e						1			9 4	•	*	I I I I I I I I I I I I I I I I I I I
MICE.								e de la companya de l			uni	ľ			l.		, ,				-1		•	•		

NAINT TAL HYDRO-ELECTRIC SUPPLY.
CALCULATIONS OF COPPER FOR DISTRIBUTION.

Sub-Station II.

	<u> </u>					11-7-22-22-22-22-22-22-22-22-22-22-22-22-2		war war war war war war war war war war	4 144					و معالما المعالمة				-	·	ell Daybyne				-	······································
Total weight in Ibs.	1,509	613	1,158	234	7,338	201	6,835	294	1,757	782	4-29B	2,201	554	2,670	6,841	2,165	5115	341	208	4,005	643	483	1,337	099	47,095
Weight per 1,000 pards for three phases.	3×692	3×409	3×1257	3×335	3×1257	3×335	9×1257	3×335	3×1257.	3×335	3×1257	3×692	3×1257	3×954	3×1257	3×1257	3×335	3×335	3×333	3×2225	3×335	3×335	3×954	3×2225	
Copper section S. W. G.	c)	าต	000	·o	2×000	9	2×000	9	2×600	ပ	3×000	c)	000	0	3×000	3×000	9	9	.	3×7/0	9	•	0	3×7/0	
Ohins ner 1,690 Fards.	67.0	16.0	0.19	6.30 6.30	6.31	21.07	60 0	7-60	00.0	8.27	0.27	0.43	0.30	0.27	0.30	60.0	5-00	9.51	0.72	0.03	1.15	1.27	0.27	70.0	
Volts drop per 1,000 vards.	ро 4 - U I	0 9	.4. &	NO.	⊢	41.5	0-7	40.0	4.2	10. 0	0.4	0.9	in.	9	6.0	0.9	2.61	7.66	19.8	ж -4-	13.6	20.0	133.1	6	•
Votts drop in section,	0.8	0.6	1.3	en A	0.3	8.3	63	Ŀ	0.1	12.7	in F	6.9	8.0	## #-	in in	1.1	10.1	1.01	÷ .	6. 0	20 20	i. Ö	9	ò	
Voltage at end of section.	00 00 1f 0 00 0	က တ ဝ က တ ဝ	0.000	304.408.	1 - 1 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -	400 e	- 1 - 1 - 1 - 1 - 1 - 1		5 vs. vs. vs. vs. vs. vs. vs. vs. vs. vs.	30 m	5 10 0	304.8	37.7	1.69 1.46 1.60 1.60 1.60 1.60 1.60 1.60 1.60 1.6	9.11.0 0.17.0	5 60 C	364.8	364.8	35.4 5.0 5.0 5.0	979.0	360 360 360 360 360 360 360 360 360 360	9.55 4.55 7.55 7.55	673.5	350 O	
Amperes.	e st	සි	r H	5	Og : 16	1.01	65 65 61	5.26	66:4	16	G.	13.82	27.63	27 63	61-18	1.19	18.6	₹8. 11	69.43	E9-11T	₹ 63 * []	18.73	51-33	268-95	***************************************
E. W. 58 king power fac. ton 8.	3.45	က္ခ	ର ଅ	0.75	14.25	e. o	18.20	5.00	00.SE	0.75	20.35	154 160	10.20	10.50	10.25	0g-95	ig F	05.≇	10.50	64 50	4.60	0.00	19.60	87.0C	* 1
K. W. re. quired D. sector 5.	ė	0	ဖွ	9.0	7.4	9	27	, p	7. \$1	0-0	16.2	eł -	7.3	4.8	18.6	7.06	o 85	e G	₩ B	24.0	19 10	€.	15 G	69-6	•
Long The Target The Ta	i i	og.	to en	200	os Ex	ş	8:	£65	698	- 180	032	907	igi G	æ,		136,	010	G.	201	008	OFO	¥33	467	.67 69	11,633
Po juncaione			2 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1											*		*	***								
ní og	or .	. H 2	ek eg	en Ko F	co	: 60	ei K	: 5 <u>2</u> ::	. 631 S			F2.	€ E E	: H		con H		6.0	193	8	- F	5.7	8 7	Sub E	en en en en en en en en en en en en en e
From [agosion	7. 14 1. 14 2. 11 1. 11 1. 11	ditter.		# 15 m	r de la companya de l				Contract to 1 %	No. 24 (1)				e e					•		•				Total :
From	1						ĺ	4	*				7.7.2	Be	er.		CH			3.0		i		es.	

NAINT TAI HYDRO-ELECTRIC SUPPLY.

Caloulations of Copper for Distribution.

Sub-Station III.

20 .M .H .G .E .E .E .E .E .E .E .E .E .E .E .E .E	ر په دو په در په دو په دو په دو په دو په دو په دو په دو په دو په دو په دو په		er , enere likke,	Michael E. min	COMPET ACCOUNT		elevering of man of			3	and the second second		rapit) ninerasih	,	en egist in transm			is Hel steley ena.	Sub-Station	Sub-Station	Sub-Station	-
Total Weight in Ibs.		03 03 03 03	350	898 -	E E	ı	2,128	202	(C)	E	3,001	1,509	1,253	24 Fel Ga	1,540	55	915	1,131	15,059	47,695	806,48	56,692
Weight per 1,000 yards, for 8 phases.	a la sanga da garaga	3X335	SX 55	150 250 X 90	3×1257	9X818	3X 518	,3×1257	×25 25 25 25 25 25 25	2K(32	\$28 X8	2×692	3×8×8	8X £33	3×1039	3×835	#68X8	3X1257	P A			The second secon
Copper section S. W. G.		ĸĐ	,¢o	æ,	000	X	red	2XC00	ယ	८३व	e Xe	64	O	сu	3	N/D	XX	89X	•			•
Ohns per	and makes a common	wiff and	OF O	ത്	0.30	(C)	68 O	E is	02-1	6F-0	65.0	0	0.30	£9.0	0.57	06.7	0.14	0.03			and anything the set	d H
Volts drop yer 1,000 yards.		en List Pa	Ess.	and the second	9	합	cn td	CPS in-t in-t	ini ini	(4) (1) (1)	C75 C74 F-15	(a)	(7s	9.97	တ	3.65 1171 673	cu -4	cu PG PG	ay and residence of the second	eleganie person	ngg billing washi	
Voite Grop in section	ege an egen	4	OI -	rdi GD	(O	24 +-1	54 53 F4	က ဝ	ကေ	t o	ရာ	tre Ma	-JI co	41	£~	rod E	94 m	ON THE				***************************************
Voitsge at end of sec. on.		00 00 	000	N OO T	20 to 10	ත හ අ ප ස්ථ ස පි දිදි දී	3 60 6 0 60 6	2 Q 1	0 00 c	-11 C O O W O O O	2 co 2 5 co 5 5 co 6	0 00 W		0 00 00 00 00 00 00	5 co c) 10 4 0 60 6	0 (2) (2) (2) (3) (4)	က က အ ဝိုင်္က ကို ကို ရ				
Ample,		100	en en			51.60	69 10 10	10 TO	CO CO Cor	05) 163 973 973	Trial real Crit	er er	27:63	10 ch ch	16 63 63	Co Co	65 65 65	195-39				
K.W. tek- ing-payer tector 9		(F)	ja cs	ទ	9.75	26-22	92.87	ୀନ ଫୁଟ	9	5.61	- S	G L	10-90	1.50	13.7	3.00	H G	14.55	a a			
K. W. tequired D. teaturs - 6	en je	tr - 00	y) k**	 	61 56	. E	9	्र इंद्र	(32	9.6	C7 - C2	0 9	ç. 41	1.3	10.3	्या ट्य	16·3	*************************************	•	Complete Complete		
Length in			7:07	198	ing.	No.	18	la	i.	ā	83	Œ	cro set	173		OM.	160	18			gir armin nogadiydi.	Angel Congress
instruction,				fr - August		•			Herritonian Park	e de la companya de l		e a constant		•				i H				
		en M	53) H4	67	63 P4	en	a q	en An	10 (3 (4)	86 11	83 -11	es Di	co US	se M	o Pa	do Gr	•	. Sum III				
on the second		6	, n		***	A	**************************************	•		•	·	es.	17 (F) 14 (S)	œ		8 8	c	29	THE STATE OF THE S			Pod Talel

NAINI TAL HYDRO.ELECTRIC SUPPLY.

CALCULATIONS OF COPPER FOR HIGH TENSION TRANSMISSION.

Total weight in lbs.	\$ 0 \$	201	6-5 part 6-5	\$13 613	2,729	508	928.	7,627 lbs.
Weight per 1,000 yards.	3 × 335	ಬ X 855	ж Х 335	× × × × × × × × × × × × × × × × × × ×	3 × 489	× 33	ςς Χ το Γ-	Total
Copper section S. W. G.	(5	9	©	-3	9	co	
Ohms per 1,000 yards.		99.9	9. 79	96-9	0.21		0	Primario de La copuez paga de giorno.
Volts drop per 1,000 yards.	09	265	J.	en En	8	80%	8	
Volts drop in section.	27 SA	GO 110	.	8		121	66	
Voltage at end of section	000'8	3,060 3,060 3,068	3,053 3,090	080's 3,090	3,090	3,080 3,201	3,201 5,300	
Amperes.		.68 .68	77.65	43.55	108-02	43.56	132.58	
K. W. tak- ing power factor ·8.	125	131.25	256.25	1483*75	850•00	143.75	437.50	
E. W.	60	Š	508	2	280	ic H	930 0	
Length in yards,	830	200	610	33.	1,860	300	1,660	
To junction.		1	# 1	•	10 mm 1 mm 1 mm 1 mm 1 mm 1 mm 1 mm 1 m		General state	
	4			<i>m</i> :	(3) 	GD ⁽³⁾	Charless (Line)	
From Junction.		ar ar ar ar ar ar ar ar ar ar ar ar ar a				40 m		
	Ī	- E	*		pa	.	Q	

ESTIMATE OF SUE-STATION BUILDINGS.

escription of work.	Quantity.	Rate.	Amount
			**I
			Rs.
			LLD
1. Exervation	1,716 e.ft.	6% c.ft.	10
2. Concrete in lime	161 c.ft.	20% c.ft.	152
3. Stone source rub-			
ble masonry in			
lime.	1,599 c.ft.	28/4% c.ft.	452
4. Stone source rub			
ble masonry in	4 100 p	01/	سرودان
clay.	4,168 e ft.		875
5. Cornice complete 6. P. C. concrete	100 s.ft.	d por s.ft.	25
lintels.	15 c.ft.	2/10 c.ft.	39
7. Archwork	88 c.ft.		10
8. Reinforced concrete	85 c.ft.	2/10 c.ft.	203
9. Doors and windows	70 s.ft.	1/6 per s.ft.	96
0. Salwood work	30 c.fb.		176
1. Lime plaster	32,81 s.ft.	4/8% s.ft.	145
2. 3" Slab flooring	416 s.ft.		147
3. Lime Pointing	2,400 s.ft.	2/10 s.ft.	63
4. Iron work	3.0 cwt.	74 cwt.	222
5. 22 B. W. G. sheet	Servición de	NEW ME A	w /3 +
aron.	537 s.ft.	105% s.ft.	564
6. I" Chirwood ceil-	SIV e.M.	21/10% s.fc.	7
ing. 7. Gutters 9"	32 8. (t.	2/12 s.ft.	88
8. Down pipe 4"	25 s ft.		63
9. White washing	3,231 s ft.	6/6% s.ft.	13
0. Pointing and var-			
nielling.	1,056 s.ft.	5/11% s.ft	60
11. Site clearing	L.S.		100
			Die general von der Aufter
		Total Rs.	3,614
three such sub-station buil	Alinea	Ra	10,842
Manager of the Control of the Contro			

		$\mathrm{R}_{\theta_{\bullet}}$
1.	Two 125 K. V. A. Westinghouse transformers, oil	
	cooled with all connections complete delivered	
	arected and tested at Rs. 6:000 ***	12,000
2.		
	enclosed artiches, automatic time release, volt	
	meters, ammeters time-piece and all connections	
	complete and created at Re. 8.000	3,000
36	Isombal lightning arresters with horngaps, earth	
	and line connections complete and erected at	
	Rs 2,500	2,500
4,	Six lighting points at Rs. 40	240
5 .	Outstake arrangements for two lines at Rs. 200	400
		والتقليسية والمناسة
	~ Total	18,140
	w v	والمتعادمة بمدينها
	For three substations	54,420

Į	STIMATE OF WATER SUPPLY ALTERATIONS ADADDITI	ома.
1	Alleman and Tribe Try	Rs.
.l.,	Alterations to Filter House	0,000
2.	Two motor driven three throw pumps head 1,300 (to	
	63 g. p. m. with gear creeted complete and	
	tested, Rs. 8,500	1 Me
ð.,	Three sets, motor with extended shaft to drive	
	centrifugal pump at either end, either in series	
	at 475 ft head and 170 g. p. m. or in parallel at	
	250 ft. head at 360 g. p. m. with all valves and	
	connections complete, erected and tested at	
	Rs. 12,500	37,500
4.	Two 125 K. V. A. Westinghouse Transformers	
19	3 phase 3,300: 380 oil immersed with all connec-	
	tions complete and er cted at Rs. 6,000	12,000
5.	Switchboard containing motors one spare and one	
	auxilary panels with volt meters and ammeters	
	and all connections complete and erected	7,500
6.	하는 그는 그는 그 사람들은 그는 그는 그들은 사람들은 그래, 한 상 가고 말했다. 어머니는 아니는 아버리를 하다 수	
	runway	3,500
7	One set Isenthal lightning arrestors with horn gaps	
	and choking coils and earth connections all com-	
	plete and erected	2,500
8.	Cost of additions and alterations to rising mains as	
	per attached estimate	18,798
Q.	Contingencies at Rs. 10 per cent	10,780
Ç.		Section of the Sectio
	Total 🛶	1,18,578
10.	Sanitary Engineer's fees for preparation and cons-	
	truction at 12 per cent	14,229
		constitution and fagure and agray
	Grand Total	1,92,807
		and the second s
	WATER SUPPLY ARRANGEMENTS.	
	Estimate of cost of alterations and additions to rising	mains.
		Re.
	Exervating lifting and relaying 346 yards of existing	
	5" C.I. piping as the upper lengths leading the Inter	
	Cheena and Injer Ayarpatra Tunks at Re. 1-40	
Caralloni Richard	per yard including jointing material	430
2	918 yards run of 5" steel main suitable for 500 ft.	
***	head laid complete at Rs. 13 per yard	11,094
3.	346 yards of 6" C. I. S. and B. piping suitable for	
43.	300 ft, head at Rs. 16 per yard laid and jointed	
		5,580
	complete Specials, valves, fictings and tank connections for	
4.	Specials, valves, neings and same tenders.	805
	above at Ra. 5 per cent, on Ra. 17,908.	المستحدالين المستعين
	Total	18,798
	G, McC. HOE	
	Executive Bugineer, 1st Sanitary	
		Salaranp
10 90	th July, 1919.	